TECHNONICOL



Catalog of Materials for Industrial and Civil Construction

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About our company

TECHNONICOL is a major international manufacturer of reliable and effective building materials.
The company is bringing to the market innovative products that combine front edge world experience and solutions found by own research centers.
Collaboration with design institutions, architectural studios, developers, builders and private home owners enables TECHNONICOL to react quickly and flexibly to ever-changing consumer requests.

Presently TECHNONICOL Corporation integrates 51 manufacturing sites in 7 countries worldwide (Russia, Belarus, Lithuania, Germany), 18 educational centers, 6 research centers and 22 representative offices in 18 countries. The company exports its materials to 90 countries worldwide. TECHNONICOL headquarters are in Russia, Poland, Italy, China and India. In 2016 total revenue of the industrial complex was 70 billion rubles.







1992
Foundation of TECHNONICOL Corporation

1993–1994
The company launches its own production of rolled roofing materials at Vyborg Ruberoid Factory in Leningrad Oblast. The first office in Moscow was opened.

1995
The company launches its own production of rolled roofing materials at Vyborg Ruberoid Factory in Leningrad Oblast. The first office in Moscow was opened.

1996–1999
To expand its range of products and satisfy growing demand, the company launches new facilities for the manufacture of hydraulic insulating materials.

By the end of 20th century the company has 5 production sites and 35 sales offices in various regions of Russia.

The company enters Ukrainian market and opens the first sales office in Kiev.

2000–2003
Company management decides to expand the range of products for the construction market.

To enter a promising sector of pitched roofing, TECHNONICOL purchases the first factory abroad - Gargzdu MIDA (Lithuania) and launches the production of flexible tile under SHINGLAS brand.

A series of heat resistant mineral wool based materials under TECHNO brand was launched.

Production of mastics was started, allowing us to organize integrated supplies of water-and thermal -insulating materials to construction projects.

Active expansion of sales network was underway: 50th sales office was launched. TECHNONICOL Corporation was among the five largest European manufacturers of hydraulic insulating materials.

2004–2005
Composite tile Luxard appears in company's product range, TECHNONICOL being the first in Russia to make this tile

To fulfill growing demand in Ukraine TECHNONICOL opens up a facility to manufacture bitumen and polymer bitumen materials in Dneprodzerzhinsk. Start of the biggest in Russia manufacturing company in Ryazan (a joint venture with Cheva from Spain) allowed us to stabilize SHINGLAS tile distribution throughout the whole of Russia.

2004 saw the opening of the first TECHNONICOL's research center where new innovative materials have been developed and tested.

Corporation branches have been opened in all CIS countries. The first sales office was opened in Warsaw (Poland). By the results of 2005, TECHNONICOL was number 1 in Europe for the production of roofing membranes.

2006–2008
The company starts the manufacture and delivery of extrusion polystyrene foam under TECHNOPLEX brand.

Two factories were launched with total capacity of 600 000 m^3 per year.

A full cycle production of LOGICROOF polymer membranes, advanced waterproofing materials, first in Russia, was built and launched.

TECHNONICOL Corporation was among the leading three Russian companies in the market of thermal insulating materials.

2009–2010
Corporation ramps up production, increasing its export share in the European market.

Lines for the production of mineral wool based thermal insulating materials were commissioned in TECHNO (Cherkassy) and AXI (Chelyabinsk) sites.

Production of extrusion type polystyrene foam blocks and advanced technical insulation was started in the Ukraine.

Production of PLANTER drainage systems was launched in LOGICROOF company in Ryazan.

TECHNONICOL joins Russian Association of Wood Housing Construction and Association of Effective Thermal Insulation Manufacturers ROSIZOL.

Company management was among elected Board Members of National Roofing Union of Russia.

2011–2012
TECHNONICOL was awarded the prize of National Agency for Low-rise and Townhouse Construction of Russia and was named by the Agency the best manufacturer of insulation materials for civil engineering.

The company opens up the production of extrusion type polystyrene in Bashkortostan.

Third manufacturing line for rolled materials was launched in Vyborg.

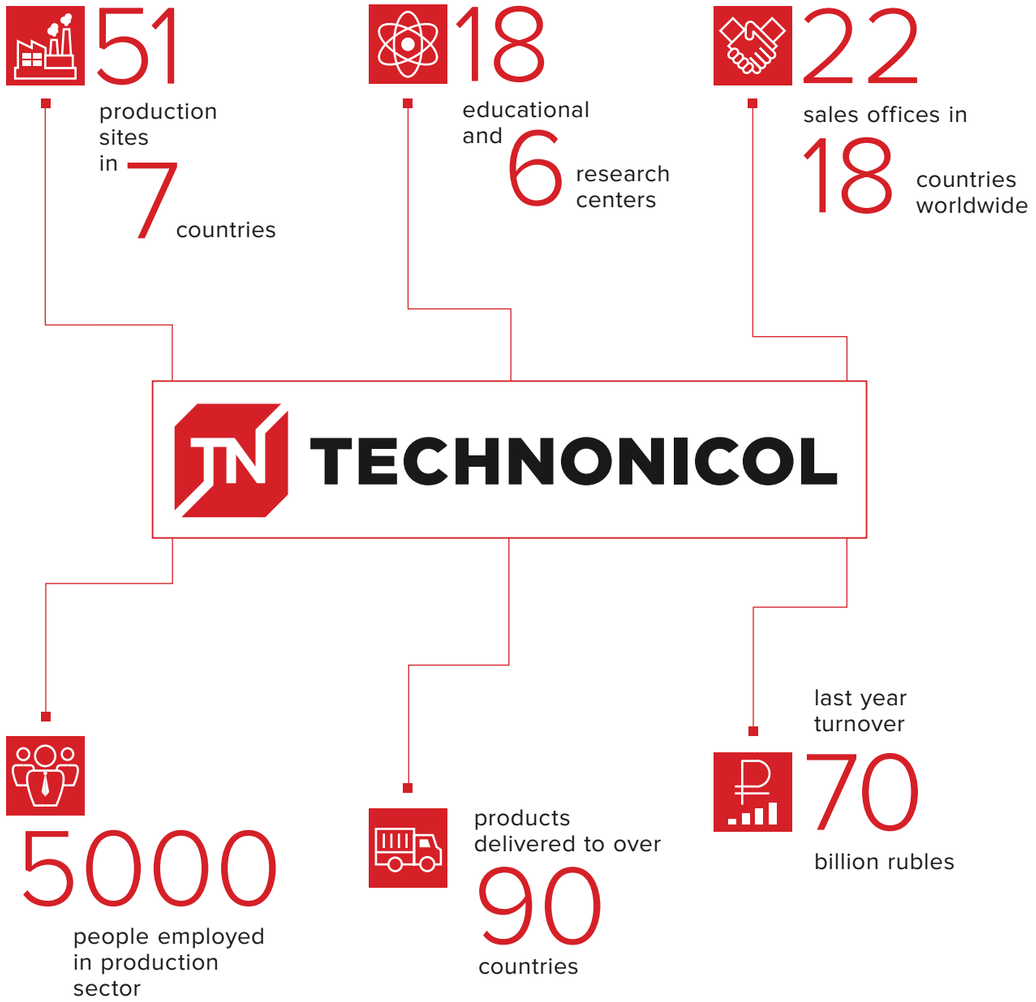
In Ulyanovsk and Kemerovo Regions TECHNONICOL launches new facilities for the production of extrusion type polystyrene. The company also invests in mineral wool production in the territory of Russian Far East, in Rostov Region and Povolzhye (region along the Volga).

In 2012, to mark its 20-year anniversary, TECHNONICOL came forward with an initiative to conduct a national Green Alley campaign which resulted in over 9000 trees being planted on 14 September, 2012 in 150 cities across Russia, Ukraine and Belarus.

2012–2015
In September, 2015 the company launches production of new for Russia PIR (polyisocyanurate) - foam heat insulating materials in Ryazan.

2016
In 2016 TECHNONICOL launched another two facilities for the production of mineral wool in Rostov-on-Don and Khabarovsk, and the first facility for the production of expanding polyurethane foams in Ryazan. In the autumn of 2016 a deal was finalized for the purchase of SuperGlass manufacturing company in Scotland, a biggest in Great Britain independent manufacturer of glass cotton based insulating materials.

TECHNONICOL Corporation in figures



Roofing and waterproofing materials

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1

TECHNOELAST

STO 72746455-3.1.11-2015

Hydraulic insulation of roofing systems, foundations and other engineering constructions

- Durability
- Guaranteed water-tightness
- Installation method: Welding
- Stable dimensions
- High strength
- High repair capability
- 60 YEARS — Service life in underground structures
- 35-40 YEARS — Service life in roofing



Description of the material

Technoelast is a waterproofing membrane produced by a two-sided applying of a polymer-bitumen binder on a polyester or fiberglass base. The material sustains high temperature fluctuations and high mechanical loads, providing a long-term, reliable and effective waterproofing. Technoelast is a biologically resistant material.

Technoelast K is designed for use as the top layer of roof cladding. Coarse-grained dressing compound (hydrophobizated slate) protects the material against sunlight.

Technoelast P is used in the bottom layer of roof cladding and for the waterproofing of engineering structures (basements, tunnels, etc.). Technoelast can be used in all climatic zones (as determined in Construction Regulation (SP) 121.13330

Method of application

The material is welded to a prepared surface using a gas burner. Material application: according to the Manual for the Design and Installation of Polymer-Bitumen Roofing Manufactured by the TECHNONICOL Corporation.

Storage

Store rolls of material in a dry, closed room. Store vertically, in a single tier by height, in at least 1 meter from heating appliances.

Basic physical and mechanical properties

	EPP	HPP	EKP	TKP
Thickness, mm (±0.1 mm)	4.0	3.0	4.2	4.2
Mass of 1 m^2, kg (±0.25 kg)	5	3.9	5.2	5.2
Max longitudinal/transverse tensile strength, N, not less than				
polyester	600 / 400	—	600 / 400	—
glass fiber fabric	—	—	—	800 / 900
glass fiber mat	—	294 / –	—	—
Bend point on R=25 mm and R=10 mm beam, °C, no more than	–25	–25	–25	–25
Thermal strength, °C, not less than	100	100	100	100
Type of protective coating				
top side	film w/out logo		slate	
welded side	film with logo		film with logo	
Length/width, m	10×1	10×1	10×1	10×1

Range of Products:

Slate dressing colour palette:



green



red



grey

TECHNOELAST TERMO

STO 72746455-3.1.15-2015

Hydraulic insulation of roofing systems. Recommended for regions where roofing. Is exposed to elevated temperatures.

- Installation method: Welding
- 25 YEARS — Service life
- Waterproofing warranty
- +130 °C — High heat resistance
- High strength

Description of the material

Technoelast TERMO is a waterproofing membrane produced by a two-sided applying of a polymer-bitumen binder on a polyester or fiberglass base. Due to special APP-modificators Technoelast TERMO retains its properties even at very low temperatures (down to -130 °C. The material sustains broad range of temperature fluctuations and high mechanical loads, providing a long-term, reliable and effective waterproofing. Technoelast is a bioresistant material.

Technoelast K is designed for use as the top layer of roof cladding. Coarse-grained dressing compound (hydrophobizated slate) protects the material against sunlight.

Technoelast P is used in the bottom layer of roof cladding and for the waterproofing of engineering structures (basements, tunnels, etc.). Technoelast can be used in all climatic zones (as determined in Construction Regulation (SP) 121.13330

Method of application

The material is welded to a prepared surface using a gas burner. Material application: according to the Manual for the Design and Installation of Polymer-Bitumen Roofing Manufactured by the TECHNONICOL Corporation.

Storage

Store rolls of material in dry, closed room. Store vertically, in a single tier in height, in at least 1 meter from heating appliances.



Basic physical and mechanical properties

	EPP	HPP	EKP	TKP
Mass of 1 m^2, kg (±0.25 kg)	4.4	3.4	5.7	5.7
Breaking load, longitudinal/transverse, N, not less than				
polyester	600 / 400	—	600 / 400	—
glass fiber fabric	—	—	—	800 / 900
glass fiber mat	—	294 / –	—	—
Bend point on R=25 mm and R=10 mm beam, °C, no more than	–15	–15	–15	–15
Thermal strength, °C, not less than	130	130	130	130
Type of protective coating				
top side	film w/out logo		slate	
welded side	film with logo		film with logo	
Length/width, m	10×1	10×1	10×1	10×1

TECHNOELAST FIX

STO 72746455-3.1.11-2015

Material for mechanical fastening in two-layer roofing system

Mechanical fastening

25-30 YEARS
Service life

Waterproofing warranty

High strength



Description of the material

Technoelast FIX is a waterproofing membrane developed for the installation of roofing systems with mechanical fastening to the base (the material is used as the bottom layer in a two-layer system). This technology permits obtaining within a short period of time roof cladding that can withstand large base deformations and operates on a «breathing» roof principle. Technoelast FIX has been tested for crack resistance at the nail shank, a required condition for the materials with mechanical fastening to the roof. Cross-reinforced foundation prevents deformation of Technoelast FIX in course of installation and service, and sand dressing on the bottom surface prevents the material from sticking to the base. Technoelast FIX can be used in all climatic zones (as determined in Construction Regulation SP 131.13330).

Method of application

The material is installed by way of mechanical fastening. Base surface does not require prime coating. Joints are welded using a propane burner. The material is used on the roofing of quickly erectable buildings.
Material application: according to the Manual for the Design and Installation of Roofs with Mechanical Fastening and Manual for the Design and Installation of Polymer Bitumen Roofing.

Storage

Store the rolls of the material in a dry, closed room in vertical position. One tier in height, in at least 1 meter from heating appliances.

Basic physical and mechanical properties

	TECHNOELAST FIX
Mass of 1 m^2, kg (±0.25 kg)	4.0
Max longitudinal/transverse tensile strength, N, not less than	
polyester	600 / 600
Bend point on R=25 mm and R=10 mm beam, °C, no more than	–25
Thermal strength, °C, not less than	100
Crack resistance at the nail shank, N, at least	260
Type of protective coating	
top side	film with logo
bottom side	coarse-grained sand
Length/width, m	10×1

TECHNOELAST TITAN

STO 72746455-3.1.11-2015

Maxim reliability of roof waterproofing

Durability and effectiveness

Water tightness guaranteed

Thermal endurance (140 ° C

35 YEARS
Service life

-35 °C
Flexibility temperature

Installation method: Welding

High strength

Description of the material

Technoelast TITAN is a multifunctional material with unique physical and mechanical properties, excellent flexibility at negative temperatures and high heat endurance, allowing it to be used in roofing systems in zones with high temperature fluctuations. It has a wide range of dressing compound colors for various design solutions. Technoelast TITAN TOP is used as the top layer of a multilayer roof cladding. Coarse-grained basalt dressing compound provides reliable protection against sunlight. Technoelast TITAN BASE is used for the bottom layers of a multilayer roof cladding and waterproofing of engineering structures. Technoelast TITAN SOLO is used for a one-layer roof cladding and waterproofing of engineering structures. Technoelast TITAN can be used in all climatic zones (as determined in Construction Regulation SP 131.13330).

Method of application

Depending on the grade, the material can be welded to a prepared surface using a gas burner, or can be fastened mechanically. Material application is according to the Manual for the Design and Installation of Polymer-Bitumen Roofing made from TECHNONICOL Corporation Materials.

Storage

Store the rolls of the material in a dry, closed room in vertical position. One tier in height, in at least 1 meter from heating appliances.



Basic physical and mechanical properties

	TITAN BASE	TITAN TOP	TITAN SOLO
Mass of 1 m^2, kg (±0.25 kg)	4.5	5.5	5.8
Max longitudinal/transverse tensile strength, N, not less than			
polyester	600 / 400	600 / 400	1000 / 800
Bend point on R=25 mm and R=10 mm beam, °C, no more than	–35	–35	–35
Thermal strength, °C, not less than	140	140	140
Type of protective coating			
top side	film w/out logo	basalt	basalt
bottom side	film with logo	film with logo	film with logo
Length/width, m	10×1	10×1	8×1

Range of Products:

Basalt dressing colour palette (for brands TITAN TOP and TITAN SOLO)


blue mix


green mix


red mix


brown mix

TECHNOELAST DECOR

STO 72746455-3.1.11-2015

Roof waterproofing for design solutions

- Wide colour palette of dressing
- 25-30 YEARS — Service life
- Water tightness guaranteed
- Installation method: Welding
- High strength



Description of the material

Technoelast DECOR is a roofing material with high physical and mechanical parameters, which allows using it on highly sloped roofs and on tent roofs (the material is used as top layer of the roofing system). Due to the colour-fast basalt dressing compound, Technoelast DECOR has excellent decorative qualities. High fading resistance ensures that the roof will retain its original appearance for the entire service life of the material. Technoelast DECOR can be used in all climatic zones (as determined in Construction Regulation SP 131.13330).

Method of application

The material is welded to a prepared surface using a gas burner. Material application: according to the Manual for the Design and Installation of Polymer-Bitumen Roofing made from TECHNONICOL Corporation Materials.

Storage

Store the rolls of the material in a dry, closed room in vertical position. One tier in height, in at least 1 meter from heating appliances.

Basic physical and mechanical properties

	TECHNOELAST DECOR
Thickness, mm (±0.1 mm)	4.2
Mass of 1 m^2, kg (±0.25 kg)	5.4
Max longitudinal/transverse tensile strength, N, not less than	
polyester	600 / 400
Bend point on R=25 mm and R=10 mm beam, °C, no more than	–25
Thermal strength, °C, not less than	100
Type of protective coating	
top side	coloured basalt
welded side	film with logo
Length/width, m	10×1

Range of Products:

Colour may be chosen in conformity with customer requirements. Basalt dressing colour palette for standard products



blue mix



green mix



red mix



brown mix

TECHNOELAST VENT

STO 72746455-3.1.11-2015

Construction of “breathing” roofs

- Speedy installation
- Water tightness guaranteed for 15 years
- “Breathing” roof
- 25-30 YEARS — Service life

Description of the material

Technoelast VENT is a waterproofing sheet produced by applying a polymer-bitumen binder on a strong polyester base. Proper sized strips of the polymer-bitumen binder are applied on the ventilated side; the space between them is filled with coarse-grained sand. When welded, this design provides for the ability of the roof to «breathe» thus guaranteeing the absence of air bubbles, resulting in a longer service life. The material has extra thick binder layer and a very strong base; thus, one waterproofing level is enough. Application of Technoelast VENT significantly reduces costs and installation time and allows installation of one-layer “breathing” roof. Technoelast VENT can be used in all climatic zones (as determined in Construction Regulation SP 131.13330).

Method of application

The material is welded on to a prepared surface using a gas burner. Lateral overlapping width should be not less than 110 mm. Material application: as per the Manual for the Design and Installation of «Breathing» Roofs Made with Technoelast VENT and Uniflex VENT Welded-On Rolled Materials.

Storage

Store the rolls of the material in a dry, closed room in vertical position. One tier in height, in at least 1 meter from heating appliances.



Basic physical and mechanical properties

	TECHNOELAST VENT
Mass of 1 m^2, kg (±0.25 kg)	6.0
Max longitudinal/transverse tensile strength, N, not less than	
polyester	600 / 400
Bend point on R=25 mm and R=10 mm beam, °C, no more than	–25
Thermal strength, °C, not less than	100
Type of protective coating	
top side	slate
welded side	ventilated surface
Length/width, m	8×1

Roofing and waterproofing materials

TECHNOELAST SOLO RP1

STO 72746455-3.1.11-2015

Single-layer waterproofing of the roof

- High fire- resistant properties
- Water tightness guaranteed
- Speedy installation
- Service life: 35-40 YEARS
- Controlled thickness: 5 MM
- Installation method: Welding
- High strength
- Mechanical fastening

Description of the material

Technoelast SOLO RP1 is a waterproofing sheet for one-layer roof cladding. The material has increased thickness (5 mm) and a base made of special polyester. This type of the base ensures high strength of the material combined with high dimensional stability, which is especially important for one-layer coverings. Technoelast SOLO RP1 has been tested for crack resistance at the nail shank, a required condition for the materials with mechanical fastening to the roof. Technoelast SOLO RP1 is produced with a coarse-grained dressing compound on the face and an easily melting polymer film on the bottom side.

The edge of longitudinal overlapping (100–120 mm wide) is covered with a polymer film. Enhanced fire resistant performance according to Construction Regulation SP 131.13330): flame spread group RP1 (not spreading flame); flammability group V2 (moderately flammable).

Method of application

The material is laid on a prepared base. The material can be fastened mechanically, welded on or laid using automatic equipment. Overlappings should be welded on thoroughly to guarantee cladding tightness. Material application: according to the Manual for the Design and Installation of Polymer-Bitumen Roofing with Mechanical Fastening and the Manual for the Design and Installation of Polymer-Bitumen Roofing made with TECHNONICOL Corporation Materials.

Storage

Store the rolls of the material in a dry, closed room in vertical position. One tier in height, in at least 1 meter from heating appliances.



Basic physical and mechanical properties

	TECHNOELAST SOLO RP1
Thickness, mm (±0.1 mm)	5.0
Mass of 1 m^2, kg (±0.25 kg)	6.4
Max longitudinal/transverse tensile strength, N, not less than	
polyester	900 / 700
Bend point on R=25 mm and R=10 mm beam, °C, no more than	–25
Thermal strength, °C, not less than	100
Fire resistant properties	RP1 and V2
Type of protective coating	
top side	slate, basalt
bottom side	film with logo
Length/width, m	8×1

TECHNOELAST S

STO 72746455-3.1.11-2015

Self-applying waterproofing of the roof

- Self-applying base
- Water tightness guaranteed
- Single layer cladding is possible
- Service life: 25-30 YEARS

Description of the material

Technoelast S has high physical and mechanical parameters. Its main feature is that an adhesive polymer-bitumen layer is applied to its bottom surface. The material is easy to work with: you have only to remove protective film, lay the material on a prepared surface and press with a roller. Technoelast C EKS is used for the installation of single-layer roof cladding, for temporary buildings and constructions. Coarse-grained dressing on the top surface protects polymer-bitumen layer against sunlight exposure. Technoelast S EMS is recommended as the bottom layer of cladding when mounting on flammable foundation. Technoelast S membrane can be used in all climatic zones (as determined in Construction Regulation SP 131.13330).

Method of application

For quality adhesion, temperature of the foundation and the material should not be below 5 °C. Siliconized film is removed from the bottom side, and the material is bonded to the foundation. Application of Technoelast C membrane is in accordance with the Manual for the Design and Installation of Roofing from Self-Adhesive Material Technoelast C.

Storage

Store the rolls of the material in a dry, closed room in vertical position. One tier in height, in at least 1 meter from heating appliances.



Basic physical and mechanical properties

	TECHNOELAST S EMS	TECHNOELAST S EKS
Mass of 1 m^2, kg (±0.25 kg)	3.4	5.0
Max longitudinal/transverse tensile strength, N, not less than		
polyester	500 / 300	600 / 400
Bend point on R=25 mm and R=10 mm beam, °C, no more than	–25	–25
Thermal strength, °C, not less than	100	100
Bonding strength, mPa (kgf/cm^2), at least		
with concrete	0.2 (2.0)	0.2 (2.0)
with metal	0.2 (2.0)	0.2 (2.0)
Type of protective coating		
top side	sand	slate
bottom side	anti-adhesive film	anti-adhesive film
Length/width, m	10×1	10×1

TECHNOELAST GREEN

STO 72746455-3.1.11-2015

Waterproofing of multipurpose roofs with planted vegetation

- Resistance to root sprouting
- 15 years of water tightness guaranteed
- High strength
- Service life over 60 years
- Installation method: Welding



Description of the material

Technoelast GREEN is specially designed for the waterproofing of green roofs and underground engineering structures. Special additives to the polymer-bitumen binder make it resistant to damage caused by roots of plants and ensure reliable waterproofing.
Technoelast GREEN EKP is used for the top layer of roof cladding. Coarse-grained dressing compound on the top side of the sheet protects the polymer-bitumen layer against sunlight exposure.
Technoelast GREEN EPP is used for the bottom layer of the waterproofing of roofs and underground engineering structures. Beside chemical protection from root sprouting, it has mechanic protection in the form of a thick polymer film on the top side.
Technoelast GREEN can be used in all climatic zones (as determined in Construction Regulation SP 131.13330).

Method of application

The material is welded on using a gas burner. It is used for the waterproofing of buildings and structures where a contact of the waterproofing layer with root system of plants is possible.
Material application: according to the Manual for the Design and Installation of Operated Roofings.

Storage

Store the rolls of the material in a dry, closed room in vertical position. One tier in height, in at least 1 meter from heating appliances.

Basic physical and mechanical properties

	TECHNOELAST GREEN EPP	TECHNOELAST GREEN EKP
Mass of 1 m², kg (±0.25 kg)	5.0	5.2
Max longitudinal/transverse tensile strength, N, not less than		
polyester	600 / 400	600 / 400
Bend point on R=25 mm and R=10 mm beam, °C, no more than	–25	–25
Thermal strength, °C, not less than	100	100
Type of protective coating		
top side	thick film	slate
welded side	film with logo	film with logo
Length/width, m	10×1	10×1

TECHNOELAST PRIME

STO 72746455-3.1.11-2015

Roof waterproofing with mastic adhesive installation

- Mastic adhesion
- Water tightness guaranteed
- Speedy installation
- Service life 30 YEARS
- High strength



Description of the material

Technoelast PRIME is a roofing polymer-bitumen material used for the bottom and top layers; it is designed for the use in two-layer roof claddings with mastic adhesion. This technology combines the advantages of roofing made of polymer-bitumen materials and seamless solid mastic roofing.
Technoelast PRIME EKM is a material with coarse-grained dressing compound on the face and fine-grained dressing compound on the bottom side of the sheet used for the top layer of roof cladding.
Technoelast PRIME EMM is a material with fine-grained dressing compound on both sides of the sheet used for the installation in the bottom layer of roof cladding.

Method of application

Materials in Technoelast PRIME series are not intended for welding. Both hot-and cold-applied mastics are used for the adhesion of the material. Material is applied according to the Manual for the Design and Installation of Roofs Made of Technoelast PRIME and Technoelast SOLO Materials Manufactured by the TECHNONICOL Company.

Storage

Store the rolls of the material in a dry, closed room in vertical position. One tier in height, in at least 1 meter from heating appliances.

Basic physical and mechanical properties

	TECHNOELAST PRIME EMM	TECHNOELAST PRIME EKM
Mass of 1 m², kg (±0.25 kg)	3.0	4.0
Max longitudinal/transverse tensile strength, N, not less than		
polyester	600 / 600	600 / 600
Bend point on R=25 mm and R=10 mm beam, °C, no more than	–25	–25
Thermal strength, °C, not less than	100	100
Type of protective coating		
top side	sand	slate
bottom side	sand	sand
Length/width, m	10×1	10×1

Roofing and waterproofing materials

TECHNOELAST FLAME STOP

STO 72746455-3.1.11-2015

Waterproofing of roofs with more stringent requirements for fire safety

- Does not spread flame
- 15 years of water tightness guaranteed
- Installation method: Welding
- 25-30 YEARS — Service life
- High repair capability



Description of the material

Technoelast FLAME STOP is used for the top layer of roof cladding. Due to the unique polymer-bitumen mixture with special components (fire retardants), Technoelast FLAME STOP offers enhanced fire-fighting performance. According to Construction Regulation SP 121.13330, the material has the following parameters:

— flame propagation group RP1 (does not spread flames);
— flammability group V2 (moderately flammable).

Technoelast FLAME STOP can be used in all climatic zones (as determined in Construction Regulation SP 121.13330).

Method of application

The material is welded on to a prepared surface of the foundation using a gas burner. Material application: according to the Manual for the Design and Installation of Roofs Made of Polymer-Bitumen Materials Manufactured by the TECHNONICOL Corporation.

Storage

Store the rolls of the material in a dry, closed room in vertical position. One tier in height, in at least 1 meter from heating appliances.

Basic physical and mechanical properties

	TECHNOELAST FLAME STOP
Thickness, mm (±0.1 mm)	4.2
Mass of 1 m^2, kg (±0.25 kg)	5.2
Max longitudinal/transverse tensile strength, N, not less than	
polyester	600 / 400
Bend point on R=25 mm and R=10 mm beam, °C, no more than	–25
Thermal strength, °C, not less than	100
Fire resistant properties	RP1 and V2
Type of protective coating	
top side	slate
welded side	film with logo
Length/width, m	10×1

TECHNOELAST ALPHA

TU 5774-041-17925162-2006

Waterproofing and gas insulation of buried parts (substructures) of buildings and constructions

- Protection of underground structures against radon and other gases
- 60 YEARS — Service life
- 15 years of water tightness guaranteed
- High strength

Description of the material

Technoelast ALFA is a waterproofing membrane which consists of polyester material combined with a special gas insulating aluminum screen, with polymer-bitumen binder applied on both sides. The metal screen in Technoelast ALFA ensures a high level of substructure protection against widespread hazardous inert gases, such as radon and methane.

Technoelast ALFA can be used in all climatic zones (as determined in Construction Regulation SP 121.13330).

Method of application

The material is welded to a prepared surface using a gas burner. Material application: according to the Manual for the Design and Installation of Water- and Gas Insulation for Underground Parts of Buildings and Structures Using Technoelast ALFA.

Storage

Store the rolls of the material in a dry, closed room in vertical position. One tier in height, in at least 1 meter from heating appliances.



Basic physical and mechanical properties

	TECHNOELAST ALPHA
Thickness, mm (±0.1 mm)	4.0
Mass of 1 m^2, kg (±0.25 kg)	4.95
Max longitudinal/transverse tensile strength, N, not less than	
polyester	600 / 400
Bend point on R=25 mm and R=10 mm beam, °C, no more than	–20
Thermal strength, °C, not less than	100
Vapour permeability indicator, kg/(m.s.Pa)	0
Type of protective coating	
top side	film w/out logo
welded side	film with logo
Length/width, m	10×1

TECHNOELAST MOST B

TU 5774-004-17925162-2003

Waterproofing of bridgeworks and other engineering structures

- Waterproofing of bridgeworks
- Water tightness guaranteed
- High strength
- 60 YEARS — Service life
- Installation method: Welding



Description of the material

TECHNOELASTMOST B is a waterproofing sheet produced by two-sided installation of high-quality polymer-bitumen binder on a strong rot-proof polyester base. The unique binder formula provides for enhanced durability and wear resistance of TECHNOELASTMOST B. TECHNOELASTMOST B is designed for waterproofing of reinforced concrete slabs on the traffic ways of bridgeworks, as well as waterproofing of other engineering structures. TECHNOELASTMOST can be used in all climatic zones (as determined in Construction Codes and Regulation SP 121.13330).

Method of application

The material is welded on a prepared surface using a gas burner or special-purpose equipment. Material application: according to the Manual for Waterproofing of Bridgeworks by Rolled Welded-On TECHNOELASTMOST Materials and the Manual for Application of Welded Rolled TECHNOELASTMOST and Technoelast Materials for the Waterproofing of Structures.

Storage

Store the rolls of the material in a dry, closed room in vertical position. One tier in height, in at least 1 meter from heating appliances.

Basic physical and mechanical properties

	TECHNOELASTMOST B
Thickness, mm (±0.1 mm)	5.0
Mass of 1 m^2, kg (±0.25 kg)	6.3
Max longitudinal/transverse tensile strength, N, not less than	
polyester	600 / 600
Bend point on R=25 mm and R=10 mm beam, °C, no more than	–25
Thermal strength, °C, not less than	100
Static puncture resistance, N, not less than	—
Type of protective coating	
top side	sand
welded side	film with logo
Length/width, m	8×1

TECHNOELAST MOST S

TU 5774-004-17925162-2003

Waterproofing of bridgeworks, ramps, and other structures

- Waterproofing of steel plates and reinforces concrete bridgework slabs
- Water tightness guaranteed
- +220 °C — Asphalt can be laid on waterproofing layer
- 60 YEARS — Service life
- Installation method: Welding
- High strength

Description of the material

TECHNOELASTMOST S is a waterproofing with an extra strong base coated with a special binder. The material has maximum wear resistance and durability qualities and withstands high temperatures (up to +220 °C).
TECHNOELASTMOST S is widely recognized as a reliable material for the waterproofing of engineering structures at federal road projects.
TECHNOELASTMOST S is designed for use in the protective and bonding layer on steel orthotropic plates and reinforced concrete slabs of traffic ways. Bitumen concrete (up to +220°C) can be installed directly on the waterproofing layer.
TECHNOELASTMOST can be used in all climatic zones (as determined in Construction Regulation SP 131.13330).

Method of application

The material is welded to a prepared surface using a gas burner or special-purpose equipment. Material application: according to the Recommendations for the Waterproofing of Bridgeworks with Rolled Welded-On TECHNOELASTMOST Materials.

Storage

Store the rolls of the material in a dry, closed room in vertical position. One tier in height, in at least 1 meter from heating appliances.



Basic physical and mechanical properties

	TECHNOELASTMOST S
Thickness, mm (±0.1 mm)	5.2
Mass of 1 m^2, kg (±0.25 kg)	5.95
Max longitudinal/transverse tensile strength, N, not less than	
polyester	1000 / 900
Bend point on R=25 mm and R=10 mm beam, °C, no more than	–25
Thermal strength, °C, not less than	140
Static puncture resistance, N, not less than	250
Type of protective coating	
top side	sand
welded side	film with logo
Length/width, m	8×1

Roofing and waterproofing materials

TECHNOELAST BARRIER (BO)

STO 72746455-3.1.8-2014

Waterproofing of shallow foundations.
Indoor waterproofing for underlayment.
Vapor seal covering of engineering structures.

- Self-adhesive base
- Water tightness guaranteed
- High flexibility and elasticity
- Service life: 50 YEARS
- Convenience of use

Description of the material

Technoelast BARRIER (BO) is a waterproofing sheet produced by applying a special self-adhesive binder on a thick polymer film. The other side of the sheet is covered with a strippable protective film. The absence of a base is a feature of Technoelast BARRIER (BO). It makes the material very elastic and flexible, which provides for its successful application for indoor waterproofing. Technoelast BARRIER (BO) can be used in all climatic zones (as determined in Construction Regulation SP 131.13330).

Method of application

For high quality adhesion, the temperature of the foundation surface and the material should not be less than +5°C. At lower temperatures the foundation and the bottom surface of the material should be warmed up. Siliconized film is removed from the bottom of the material, and the material is then glued to the foundation. Material application: as per the Manual for the Design and Installation of Waterproofing Made with Self-Adhesive Polymer-Bitumen Technoelast BARRIER (BO) and Technoelast BARRIER LIGHT.

Storage

Store the rolls of the material in a dry, closed room in vertical position. One tier in height, in at least 1 meter from heating appliances.



Basic physical and mechanical properties

	TECHNOELAST BARRIER (BO)
Mass of 1 m^2, kg (±0.25 kg)	1.5
Nominal strength, MPa (kgf/cm), not less than	1.0 (10)
Bend point on R=25 mm and R=10 mm beam, °C, not exceeding	–25
Binder softening temperature, °C, at least	90
Specific elongation, %, not less than	200
Cohesive strength, MPa (kgf/cm^2), not less than	
with concrete	0.2 (2.0)
with metal	0.2 (2.0)
Type of protective coating	
top side	thick polymer film with logo
bottom side	anti-adhesive film
Length/width, m	20×1

TECHNOELAST BARRIER (BO) MINI

STO 72746455-3.1.8-2014

Waterproofing of engineering structures.
Protection of pipes against corrosion.

- Self-adhesive base
- High flexibility and elasticity
- Convenience of use
- Service life: 50 YEARS

Description of the material

Technoelast BARRIER (BO) MINI is a roll (20 or 25 cm wide) which consists of a special polymer-bitumen binding mixture applied to a thick polymer film. The other side is covered by easily removable protective film. Technoelast BARRIER (BO) MINI has no base. It makes the material very elastic and flexible, permitting to obtain a good quality of waterproofing in corrosion protection of pipes and in sealing joints in engineering structures. The material may be installed on combustible foundations, without any additional equipment and in a closed, limited space. Technoelast BARRIER (BO) MINI can be used in all climatic zones (as determined in Construction Regulation SP 131.13330).

Method of application

For high quality adhesion, the temperature of the foundation surface and the material should not be less than +5°C. At lower temperatures, the foundation and the bottom surface of the material should be warmed up. Siliconized film should be removed from the bottom and the material then glued to the foundation. It is not recommended to apply a strip to hot vertical surfaces (with a temperature above +85 ° C).

Storage

Store the rolls of the material in a dry, closed room in vertical position. One tier in height, in at least 1 meter from heating appliances.

Roofing and waterproofing materials



Basic physical and mechanical properties

	TECHNOELAST BARRIER (BO) MINI
Mass of 1 m^2, kg (±0.25 kg)	1.5
Nominal strength, MPa (kgf/cm), not less than	1.0 (10)
Bend point on R=25 mm and R=10 mm beam, °C, not exceeding	–25
Binder softening temperature, °C, at least	90
Specific elongation, %, not less than	200
Bonding strength, mPa (kgf/cm^2), at least	
with concrete	0.2 (2.0)
with metal	0.2 (2.0)
Type of protective coating	
top side	thick polymer film with logo
bottom side	anti-adhesive film
Length/width, m	20×0.2; 20×0.25

TECHNOELAST BARRIER LIGHT

STO 72746455-3.1.8-2014

Self-adhesive waterproofing material for indoor use. Ceramic tiles are laid directly on the waterproof insulation.

- Water tightness guaranteed
- Self-adhesive base
- Convenience of use
- Service life: 45 YEARS



Description of the material

Technoelast BARRIER LIGHT is a modification of the Technoelast BARRIER (BO) material offering the same advantages of flexibility and elasticity. It differs from latter in its upper surface which is a non-woven sheet, making it possible to lay ceramic tiles directly on the waterproof insulation. Technoelast BARRIER LIGHT can be used in all climatic zones (as determined in Construction Regulation SP 131.13330).

Method of application

For high quality adhesion, the temperature of the foundation surface and the material should not be less than +5°C. At lower temperatures, the foundation and the bottom surface of the material should be warmed up. Siliconized film should be removed from the bottom and the material then glued to the foundation. Material application: as per the Manual for the Design and Installation of Waterproof Insulation Made with Self-Adhesive Polymer-Bitumen Technoelast BARRIER (BO) and Technoelast BARRIER LIGHT materials.

Storage

Store the rolls of the material in a dry, closed room in vertical position. One tier in height, in at least 1 meter from heating appliances.

Basic physical and mechanical properties

	TECHNOELAST BARRIER LIGHT
Mass of 1 m^2, kg (±0.25 kg)	1.5
Nominal strength, MPa (kgf/cm), not less than	1.0 (10)
Bend point on R=25 mm and R=10 mm beam, °C, not exceeding	–25
Binder softening temperature, °C, at least	90
Specific elongation, %, not less than	60
Cohesive strength, MPa (kgf/cm^2), not less than	
with concrete	0.2 (2.0)
with metal	0.2 (2.0)
Type of protective coating	
top side	polypropylene (Spunbond)
bottom side	removable film
Length/width, m	20×1

TECHNOELAST TERRA

STO 72746455-3.1.3-2013

A single-layer waterproofing of embedded structures

- Water tightness guaranteed
- Mechanical fastening
- Durability
- Service life: 60 YEARS
- Installation method: Welding

Description of the material

Technoelast TERRA is a rolled waterproofing polymer-bitumen material consisting of a polyester base and polymer-bitumen binder applied to both sides of the base. It is highly resistant to static pressure and hydrostatic load. Owing to its reinforced base, the material can be laid on the foundation without gluing it to horizontal parts and can be fastened mechanically to vertical parts. Fine grained dressing is used as the top protective layer protecting the material against excessive heating. Bottom side is covered with fusible polymer film. Overlapping sheets can be welded using butane burner or heat guns.
Technoelast TERRA is used for a single-layer waterproofing membrane in foundations, underground and buried parts of buildings and structures, cut-and-cover tunnels, stylobates, parking, etc.

Method of application

The material is installed on prepared foundation by welding or by mechanical fastening, and seams are welded. Width of lateral overlapping is about 120 mm, facilitating a reliable seam when installing a single-layer waterproofing membrane. Simple installation method in combination with mechanical fastening to vertical surfaces significantly cuts installation time and allows work on wet foundations.
Material application: according to the Manual for the Design and Installation of Foundation Waterproofing with polymer bitumen membranes.

Storage

Store the rolls of the material in a dry, closed room in vertical position. One tier in height, in at least 1 meter from heating appliances.



Basic physical and mechanical properties

	TECHNOELAST TERRA
Mass of 1 m^2, kg (±0.25 kg)	5.0
Max longitudinal/transverse tensile strength, N, not less than	1000\900
Water absorption in 24 h, mass %, not exceeding	1
Bend point on R=25 mm and R=10 mm beam, °C, not exceeding	–25
Water tightness at pressure of at least 0.2 MPa during 2 hrs	absolute
Thermal strength, °C, not less than	100
Type of protective coating	
top side	sand
bottom side	film with logo
Length/width, m	10×1

Roofing and waterproofing materials

TECHNOELAST FLEX

Sealing of expansion joints

- Sealing of expansion joints
- 60 YEARS — Service life over 60 years
- Durability
- Installation method: Welding
- Warranty



Description of the material

Technoelast FLEX is a rolled waterproofing polymer-bitumen no-base material. It has a high elasticity (relative elongation over 1000%) and low molten viscosity, which makes work more simple when working with expansion joints. Technoelast FLEX is intended for the installation of expansion joints in systems where Technoelast Series rolled polymer bitumen materials are used as a waterproofing membrane.

Method of application

The material is welded to a prepared foundation using a butane burner. Material application: according to the Manual for the Design and Installation of Foundation Waterproofing with polymer bitumen membranes.

Storage

Store the rolls of the material in a dry, closed room in vertical position. One tier in height, in at least 1 meter from heating appliances.

Basic physical and mechanical properties

	TECHNOELAST FLEX
Mass of 1 m², kg (±0.25 kg)	4.5
Elongation before break, %, not less than	1000
Water absorption in 24 h, mass %, not exceeding	1
Softening temperature, Ring and Ball method, °C, at least	110
Water tightness at pressure of at least 0.2 MPa during 2 hrs	absolute
Thermal strength, °C, not less than	100
Type of protective coating	
top side	sand
bottom side	film
Length/width, m	6×0.5

UNIFLEX

STO 72746455-3.1.12-2015

Waterproof insulation of roofing and engineering structures

- Durability
- Water tightness guaranteed
- Reliability
- 20-25 YEARS — Service life
- Installation method: Welding
- High repair capability

Description of the material

Uniflex is a waterproofing sheet with a polyester or fiberglass base. Both sides of the base are impregnated with a high-quality polymer-bitumen binder. Uniflex is a business-class material ideal for the waterproofing of any modern engineering structures and roofs.
Uniflex K is used as the top layer of roof cladding. Coarse-grained dressing compound on the face offers effective protection for the waterproofing layer against sunlight and increases service life considerably. Uniflex P is used for the bottom layer of roof cladding and structure waterproofing. Both sides of the sheet are covered with a polymer film.
UNIFLEX can be used in all climatic zones (as determined in Construction Regulation SP 131.13330).

Method of application

The material is welded to a prepared surface using a gas burner. Material application: according to the Manual for the Design and Installation of Roofs Waterproofed with Corporation Technonicol polymer bitumen membranes.

Storage

Store the rolls of the material in a dry, closed room in vertical position. One tier in height, in at least 1 meter from heating appliances.

Roofing and waterproofing materials



Basic physical and mechanical properties

	EPP	TPP	HPP	EKP	TKP	HKP
Thickness, mm (±0.1 mm)	2.8	2.8	2.8	3.8	3.8	3.8
Mass of 1 m², kg (±0.25 kg)	3.75	3.85	3.8	4.9	4.95	4.95
Max longitudinal/transverse tensile strength, N, not less than						
polyester	500 / 350	—	—	500 / 350	—	—
glass fiber fabric	—	800 / 900	—	—	800 / 900	—
glass fiber mat	—	—	300 / –	—	—	300 / –
Bend point on R=25 mm, °C, no more than	–20	–20	–20	–20	–20	–20
Thermal strength, °C, not less than	95	95	95	95	95	95
Type of protective coating						
top side	film w/out logo			granulate, slate		
welded side	film with logo			film with logo		
Length/width, m	10×1	10×1	10×1	10×1	10×1	10×1

Range of Products:


green


red


grey

UNIFLEX EXPRESS

STO 72746455-3.1.12-2015

Waterproofing polymer bitumen material for installation directly on thermal insulating layer

- Durability
- Water tightness guaranteed
- Reliability
- Service life
- Quickly welded material
- Installation method: Welding



Description of the material

The material is welded quickly and is used as a bottom layer of roof cladding. Uniflex Express is produced by applying a polymer-bitumen binder on a polyester base with further spraying both sides of the base with fine grained sand. Fine grained sand lessens excessive heating of the material during its welding and protects installed material from negative impact of sunlight until the next layer of the roofing is laid on. The break in work may be up to three months.

Method of application

The material is welded as the first layer in roofing systems installed above thermal insulation (PIR, laminated rock wool blocks) or above sand-cement screed using a standard propane burner with less gas consumption, with high speed of installation. The material can also be welded using to flammable foundations. Material application: according to the Manual for the Design and Installation of polymer bitumen Roofs. It can be used in all climatic zones (as determined in Construction Regulation SP 131.13330).

Storage

Store the rolls of the material in a dry, closed room in vertical position. One tier in height, in at least 1 meter from heating appliances.

Basic physical and mechanical properties

	EMP
Thickness, mm (±0.1 mm)	
Mass of 1 m^2, kg (±0.25 kg)	4.0
Breaking load, N, at least	
along / across	500 / 350
Mass of binder on welded side, kg/m^2, not less than	2.0
Bend point on R=25 mm, °C, no more than	–20
Water tightness at pressure of at least 0.2 MPa during 72 hrs	absolute
Thermal strength, °C, not less than	95
Type of protective coating	
top side	fine-grained sand
bottom side	fusible film
Length / width, m	10×1

UNIFLEX VENT

STO 72746455-3.1.12-2015

Waterproof insulation of polymer bitumen material for installation directly on thermal insulating layer

- One layer cladding possible
- Service life
- Water tightness guaranteed
- For “breathing” roof

Description of the material

Technoelast VENT is a waterproofing sheet produced by applying a polymer-bitumen binder on a strong polyester base. Proper sized strips of the polymer-bitumen binder are applied on the ventilated side; the space between them is filled with coarse-grained sand. When welded, this design provides for the ability of the roof to «breathe» thus guaranteeing the absence of air bubbles, resulting in a longer service life. The material has extra thick binder layer and a very strong foundation; thus, one waterproofing level is enough. Application of Technoelast VENT significantly reduces costs and installation time and allows installation of one-layer “breathing” roof. Technoelast VENT can be used in all climatic zones (as determined in Construction Regulation SP 131.13330).

Method of application

The material is welded on to a prepared surface using a gas burner. Lateral overlapping width should be not less than 110 mm. Material application: as per the Manual for the Design and Installation of «Breathing» Roofs Made with Technoelast VENT and Uniflex VENT Welded-On Rolled Materials.

Storage

Store the rolls of the material in a dry, closed room in vertical position. One tier in height, in at least 1 meter from heating appliances.



Basic physical and mechanical properties

	UNIFLEX VENT EPV	UNIFLEX VENT EKV
Mass of 1 m^2, kg (±0.25 kg)	4.3	5.5
Max longitudinal/transverse tensile strength, N, not less than		
polyester	500 / 350	500 / 350
glass fiber fabric	—	—
Bend point on R=25 mm, °C, no more than	–20	–20
Thermal strength, °C, not less than	95	95
Type of protective coating		
top side	film w/out logo	granulate, slate
welded side	ventilated surface	ventilated surface
Length/width, m	10×1	8×1

Roofing and waterproofing materials

UNIFLEX S

STO 72746455-3.1.8-2014

Self-adhesive material for the waterproofing of roofs

- Self-adhesive base
- Reliability
- Warranty
- 25 YEARS — Service life



Description of the material

Uniflex S is a rolled self-adhesive polymer bitumen material used for the waterproofing of roofs. It is produced by applying a polymer-bitumen binder on both sides of a polyester base. A self-adhesive layer is then applied on the bottom side of the base. Small-grained sand is used as a protective layer on the face side and anti-adhesion film on the bottom side.

Iniflex S is used as the bottom layer of two-layer roof cladding of buildings and structures. The material is recommended for the installation of roof cladding above PIR foam heat insulating blocks and for sites where open fire is forbidden.

Method of application

According to the Manual for the Design and Installation of Self Adhesive Roofings, Uniflex S can be used in all climatic zones (as determined in Construction Regulation SP 131.13330).

Storage

Store the rolls of the material in a dry, closed room in vertical position. One tier in height, in at least 1 meter from heating appliances.

Basic physical and mechanical properties

	EMC*
Mass of 1 m^2, kg (±0.25 kg)	2.5
Breaking load, N, at least	
along / across	500 / 350
Water absorption in 24 h, mass %, not exceeding	1
Bend point on R=25 mm and R=10 mm beam, °C, not exceeding	–20
Water tightness at pressure of at least 0.006 MPa s	absolute
Thermal strength, °C, not less than	film w/out logo
Cohesive strength, MPa, not less than	
with concrete	0.2
with metal	0.2
Crack resistance of the adhesive joint, kN/m, not less than	2.0
Shear strength of the adhesive joint, kN/m, at least	0.5
Type of protective coating	
top side	sand
bottom side	anti-adhesive film
Length (±100 mm) / width (±10 mm), m	15×1

* Reference designation of reinforcing base, (1st letter): E - polyester

PAROBARRIER S

STO 72746455-3.1.9-2014

Foil-laminated self-adhesive membrane for the steam insulation of roofs with profiled sheeting foundation. Serves as temporary roofing.

- Self-adhesive base
- Holds a man' weight
- High speed of installation
- Maximum resistance to vapour penetration

Description of the material

Parobarrier S is a foil-laminated self-adhesive steam-insulating bitumen membrane. Mixture of styrene polymers and enhanced adhesiveness bitumen is applied as an adhesive layer. Bottom surface of the material is protected with easily removable film. The material is reinforced with fiberglass mesh. Crack resistance characteristics allow holding up the weight of a man standing between corrugated sections of a profiled sheet; the material would not tear and would not stretch. Parobarrier S has no impact on the identification of functional hazard class of roof structures and may be used in the roofing system of any buildings performing any functions.

Method of application

Under negative temperatures the material should be heated using hot air fans or a gas burner. Parobarrier SA500 is designed for the inner rooms with dry and normal humidity levels. Parobarrier SF100 is designed for inner rooms with any humidity levels, including damp and wet rooms (bathrooms, swimming pools, etc.). It can be used in all climatic zones as per Construction Regulation SP 131.13330.

Storage

Store the rolls of the material in a dry, closed room in vertical position. One tier in height, in at least 1 meter from heating appliances.



Basic physical and mechanical properties

	PAROBARRIER SA500	PAROBARRIER SF1000
Mass of 1m^2, kg	0.5	1.0
Water vapour transmission rate through the sample, kg/ (m^2xC), not exceeding	0.394×10^{-8}	0
Max longitudinal/transverse elongation load, N	700 / 600	700 / 600
Elongation before break, %, not less than	2	2
Bend point on R=25 mm and R=10 mm beam, °C, no more than	–25	–25
Thermal strength, °C, at least	90	90
Water absorption in 24 h, mass %, not exceeding	1	1
Vapour penetration, mg/(m h Pa)	0.0000055	0
Water tightness at pressure of at least 0.001 MPa during 24 hrs	tight	tight
Cohesive strength, on concrete or metal, MPa, not less than	0.2	0.2
Crack resistance at the nail shank, N, not less than	60	60
Shear strength of the adhesive joint, kN/m, at least	1.5	1.5
Fire resistant characteristics	G4 and V2	G3 and V2
Type of protective coating		
top side	Al film	Al foil
bottom side	removable film	removable film
Length / width, m	50 x 1.08	30 x 1.08

Roofing and waterproofing materials

ECOFLEX

STO 72746455-3.1.15-2015

Waterproofing of roofs and underground structures. Recommended for use in regions where the material is used at elevated temperatures.

- Operation at high temperatures
- Service life: 20-25 YEARS
- Water tightness guarantee
- Installation method: Welding



Description of the material

Ecoflex is a waterproofing sheet where polymer-bitumen binder is applied on both sides of a strong rot-proof base. Owing to APP-modifiers, Ecoflex retains its operating properties even at very high temperatures (up to +130°C).
Ecoflex K is used as the top layer of roof cladding. Coarse-grained dressing compound on the top side protects the material against sunlight.
Ecoflex P is used as the bottom layer of roof cladding.
Ecoflex can be used in all climatic zones (as determined in Construction Regulation SP 131.13330).

Method of application

The material is welded on to a prepared surface using a gas burner.
Material application: according to the Manual for the Design and Installation of Polymer-Bitumen Roofing.

Storage

Store the rolls of the material in a dry, closed room in vertical position. One tier in height, in at least 1 meter from heating appliances.

Basic physical and mechanical properties

	EPP	TPP	HPP	EKP	TKP	HKP
Mass of 1 m², kg (±0.25 kg)	3.6	3.6	3.6	4.65	4.65	4.65
Longitudinal/transverse tensile strength, N, not less than						
polyester	500 / 350	—	—	500 / 350	—	—
glass fiber fabric	—	800 / 900	—	—	800 / 900	—
glass fiber mat	—	—	300 / –	—	—	300 / –
Bend point on R=25 mm and R=10 mm, °C, no more than	–10	–10	–10	–10	–10	–10
Thermal endurance, °C, not less than	130	130	130	130	130	130
Type of protective coating						
top side	film w/out logo			granulate, slate		
welded side	film with logo			film with logo		
Length/width, m	10×1	10×1	10×1	10×1	10×1	10×1

BIPOLE

STO 72746455-3.1.13-2015

Waterproofing and vapour insulation of roofs

- Installation method: Welding
- Steam insulation above concrete foundation
- Convenient installation



Description of the material

Bipole is a waterproofing material where polymer-bitumen binder is applied on two sides of a rot-proof base. Depending on the type of protective layer and field of application, two grades of the material are available:
Bipole K: coarse-grained dressing compound on the top side and polymer film on the welded side; used as the top layer of roof cladding.
Bipole P: polymer film on both sides.
It is used as the bottom layer of roof cladding. Also used for vapour insulation laid on concrete foundation.
Bipole can be used in all climatic zones (as determined in Construction Regulation SP 131.13330).

Method of application

The material is welded on to a prepared surface using a gas burner.
Material application: according to the Manual for the Design and Installation of Polymer-Bitumen Roofings.

Storage

Store the rolls of the material in a dry, closed room in vertical position. One tier in height, in at least 1 meter from heating appliances.

Basic physical and mechanical properties

	EPP	TPP	HPP	EKP	TKP	HKP
Mass of 1 m², kg (±0.25 kg)	3.0	3.0	3.0	4.0	4.0	4.0
Longitudinal/transverse tensile strength, N, not less than						
polyester	350 / –	—	—	350 / –	—	—
glass fiber fabric	—	700 / 700	—	—	700 / 700	—
glass fiber mat	—	—	300 / –	—	—	300 / –
Bend point on R=25 mm, °C, no more than	–15	–15	–15	–15	–15	–15
Thermal strength, °C, not less than	85	85	85	85	85	85
Type of protective coating						
top side	film w/out logo			granulate, slate		
welded side	film with logo			film with logo		
Length/width, m	15×1	15×1	15×1	10×1	10×1	10×1

Roofing and waterproofing materials

BICROELAST

STO 72746455-3.1.13-2015

Waterproofing of roofs

10 YEARS — Service life

Economy Class

Convenient installation



Description of the material

Bicroelast is a bitumen material featuring enhanced flexibility. It is used for the installation and repair of double layer roofing. Bicroelast is a waterproofing material where polymer-bitumen binder with special additives is applied on both sides of a rot-proof base.
Bicroelast K is used as the top layer of roof cladding. Coarse-grained dressing compound protects the material from sunlight. Bicroelast P is used as the bottom layer of roof cladding. Bicroelast can be used in all climatic zones (as determined in Construction Regulation SP 131.13330).

Method of application

The material is welded on to a prepared surface using a gas burner.
Material application: according to the Manual for the Design and Installation of Polymer-Bitumen Roofings.

Storage

Store the rolls of the material in a dry, closed room in vertical position. One tier in height, in at least 1 meter from heating appliances.

Basic physical and mechanical properties

	EPP	TPP	HPP	EKP	TKP	HKP
Mass of 1 m², kg (±0.25 kg)	2.5	2.5	2.5	4.0	4.0	4.0
Max longitudinal/transverse tensile strength, **N**, not less than						
polyester	350 / –	—	—	350 / –	—	—
glass fiber fabric	—	700 / 700	—	—	700 / 700	—
glass fiber mat	—	—	300 / –	—	—	300 / –
Bend point on R=25 mm, °C, no more than	–10	–10	–10	–10	–10	–10
Thermal strength, °C, not less than	85	85	85	85	85	85
Type of protective coating						
top side	film w/out logo			granulate, slate		
welded side	film with logo			film with logo		
Length/width, m	15×1	15×1	15×1	10×1	10×1	10×1

LINOCROME

STO 72746455-3.1.13-2015

Waterproofing of roofs in temporary buildings and constructions. Repair of roof cladding.

Installation method: Welding

Convenient installation

10-15 YEARS — Service life

Economy Class



Description of the material

Linocrome is a waterproofing material where polymer-bitumen binder is applied on two sides of a dense rot-proof base. This material has been used for many years, and it is a successful solution for low-budget projects. Linocrome K is used as the top layer of roof cladding. Coarse-grained dressing compound on the top side protects the material against sunlight.
Linocrome P is used as the vapourproofing bottom layer of roof cladding.
Linocrome can be used in all climatic zones (as determined in Construction Regulation SP 131.13330).

Method of application

The material is welded on to a prepared surface using a gas burner.
Material application: according to the Manual for the Design and Installation of Polymer-Bitumen Roofing.

Storage

Store the rolls of the material in a dry, closed room in vertical position. One tier in height, in at least 1 meter from heating appliances.

Basic physical and mechanical properties

	EPP	TPP	HPP	EKP	TKP	HKP
Mass of 1 m², kg (±0.25 kg)	3.6	3.6	3.6	4.6	4.55	4.6
Max longitudinal/transverse tensile strength, **N**, not less than						
polyester	350 / –	—	—	350 / –	—	—
glass fiber fabric	—	800 / 900	—	—	800 / 900	—
glass fiber mat	—	—	300 / –	—	—	300 / –
Bend point on R=25 mm, °C, no more than	0	0	0	0	0	0
Thermal strength, °C, not less than	80	80	80	80	80	80
Type of protective coating						
top side	film w/out logo			granulate, slate		
welded side	film with logo			film with logo		
Length/width, m	15×1	15×1	15×1	10×1	10×1	10×1

BICROST

STO 72746455-3.1.13-2015

Repair of roofs

Economy Class

7 YEARS Service life

Installation method: Welding



Description of the material

Bicrost has a strong base with a mixture of of bitumen binder and modifiers applied on both sides.
The material is designed for the installation and repair of a 2-layer roof cladding.
Bicrost K is used for the repair of roof cladding top layer.
Coarse-grained dressing compound on the top side protects the material against sunlight.
Bicrost P is used as the bottom layer of roof cladding.
Bicrost can be used in all climatic zones (as determined in Construction Regulation SP 131.13330).

Method of application

The material is welded on a prepared surface of foundation using a gas burner.
Material application: according to the Manual for the Design and Installation of Roofs Made of Bitumen Materials.

Storage

Store the rolls of the material in a dry, closed room in vertical position. Place one tier in height, in at least 1 meter from heating appliances.

Basic physical and mechanical properties

	EPP	TPP	HPP	EKP	TKP	HKP
Mass of 1 m², kg (±0.25 kg)	3.0	3.0	3.0	4.0	4.0	4.0
Max longitudinal/transverse tensile strength, N, not less than						
polyester	350 / –	—	—	350 / –	—	—
glass fiber fabric	—	600 / 600	—	—	600 / 600	—
glass fiber mat	—	—	300 / –	—	—	300 / –
Bend point on R=25 mm, °C, no more than	0	0	0	0	0	0
Thermal strength, °C, not less than	80	80	80	80	80	80
Type of protective coating						
top side	film w/out logo			granulate, slate		
welded side	film with logo			film with logo		
Length/width, m	15×1	15×1	15×1	10×1	10×1	10×1

STEKLOISOL

STO 72746455-3.1.14-2015

Installation and repair of roofs.
Waterproofing of underground structures

Description of the material

Stekloisol is a rolled roofing and waterproofing material consisting of a fiberglass base with bitumen binder evenly applied on both sides.
Coarse-grained dressing compound and polymer film are used as protective layers.

Method of application

Material is bonded to foundation by weld-melting the bottom layer.

Storage

Store the rolls of the material in a dry, closed room in vertical position. Place one tier in height, in at least 1 meter from heating appliances.



Basic physical and mechanical properties

	TPP	HPP	TKP	HKP
Mass of 1 m², kg (±0.25 kg)	2.5–3.0	2.5–3.0	3.5–4.0	3.5–4.0
Max longitudinal/transverse tensile strength, N, not less than				
glass fiber fabric	400 / –	—	400 / –	—
glass fiber mat	—	300 / –	—	300 / –
Bend point on R=25 mm beam, °C, no more than	0	0	0	0
Thermal strength, °C, not less than	80	80	80	80
Type of protective coating				
top side	film w/out logo		slate / granulate	
bottom side	film w/out logo		film w/out logo	
Length/width, m	10×1 / 15×1		10×1	

PERGAMIN

GOST 2697-83

Vapour insulation and waterproofing of roofs and other structures. Bottom layer in multilayer systems

Description of the material
Pergamin is asphalt saturated roofing felt.

Method of application
Material is easily placed on isolated surface and fixed mechanically. It may be glued by placing it on hot bitumen or mastic.

Storage
Store the rolls of the material in a dry, closed room in vertical
position. Place one tier in height, in at least 1 meter from heating
appliances.



RUBEROID

GOST 10923-93

Installation and repair of roofing designed for service life not exceeding 5 years. Waterproofing of engineering structures.

Description of the material
Ruberoid is a rolled waterproofing material for roofs. It consists of a roofing felt sheet saturated with binder. On both sides the sheet is protected against adhesion with anti-adhesion materials (fine-grained sand or talc).

Method of application
Ruberoid is glued to a prepared foundation with bitumen or mastic or is fastened mechanically.

Storage
Store the rolls of the material in a dry, closed room in vertical position.
Place one tier in height, in at least 1 meter from heating appliances.



SELF-ADHESIVE SEALING BAND

STO 72746455-3.1.8-2014

Sealing of mechanical tears and welted seams of pitched roofing, repair of leaking spots in joints between sandwich panels, sealing of roof elements, and sizing of soundproof insulation joints.

High strength

Resistance to UV radiation

Self-adhesive base

Convenient installation

Description of the material
Sealing band TECHNONICO is a self-adhesive band reinforced with fiberglass mesh, designed for the repair of metal elements in flat and pitched roofs. Width of the material is 150 mm. Aluminum foil is used as the protective top layer; bottom surface is protected with anti-adhesion siliconized film. Use of flexible foil permits obtaining maximum resistance to corrosion and durability of the material. Additional reinforcement permits the material to withstand snow load and preserve tightness.

Method of application
The material may be used to restore tightness of joints between galvanized steel sheets, gutters, troughs and rainwater funnels.

Storage
In warehouse protected from precipitation.



Basic physical and mechanical properties

	EMC
Thickness, mm (±0.2 mm)	1.0
Breaking load, longitudinal/transverse, N, not less	600 / 500
Mass of 1m^2, kg, (± 0.25 kg)	1.0
Elongation at break, %	2–4
Bend point on R=25 mm and R=10 mm beam, °C, not exceeding	-25
Thermal strength, °C, at least	90
Water absorption in 24 h, mass %, not exceeding	1
Water tightness at pressure of at least 0.001 MPa during 24 hrs	tight
Cohesive strength, on concrete or metal, MPa, not less t	0.2
Crack resistance at the nail shank, N, not less than	60
Shear strength of the adhesive joint, kN/m, at least	1.5
Type of protective coating	
top side	metal foil
bottom side	Anti-adhesion film
Length/width, m	0.15x18 (roll in film)

NICOBAND

STO 72746455-3.1.6-2014

Sealing and waterproofing of various surfaces.

- Self-adhesive material
- Convenient installation
- Resistance to UV radiation
- Service life
- Water tightness



Description of the material

NIKOBAND is a universal self-adhesive sealing band. It consists of a colored reinforced aluminum coating applied on a waterproof self-adhesive bitumen layer.
The protective film on the adhesive bitumen layer is easy to remove. The material is easy and convenient to use, and it bonds ideally to concrete, plaster, metal, bitumen, stone, wood and other surfaces.
NICOBAND sealing band is designed for sealing seams and joints, repairing cracks, waterproofing, and corrosion protection.
The material can be used in all climatic zones (as determined in Construction Regulation SP 131.13330).

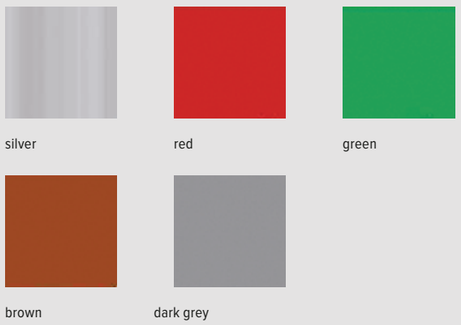
Method of application

The surface must be clean, dry, and free from rust and dust. For a better and more durable bond, prime coating of foundation is recommended. The surface and material temperature should be at least +5°C. At lower temperatures it is necessary to heat the adhesive side of the material and the foundation. It is not recommended to apply the band on hot vertical surfaces (with an angle of slope >55° and temperature above +85°C).

Storage

Store the band in a place protected from atmospheric precipitation and direct sunlight.

Range of Products:



silver, red, green, brown, dark grey

Basic dimensions

Width, cm	5	7.5	10	15	20	30
Length, 3 m	yes	yes	yes	yes	yes	no
Length, 10 m	no	yes	yes	yes	yes	yes

NICOBAND DUO

STO 72746455-3.1.6-2014

Sealing of concealed joints, cracks and junctions

- Self-adhesive material
- Convenient installation
- Water tightness
- Service life

Description of the material

NICOBAND DUO is a double-sided self-adhesive bitumen-polymer tape for sealing hidden seams and joints, for temporary fastening or for the simultaneous fixation and sealing of small elements. NICOBAND DUO consists of a bitumen-polymer layer of a special composition ensuring good adhesion to virtually any surface. On both sides it is protected by polymer film, which is easily removed. The material is easy and convenient to apply. It has excellent adhesion to metal, concrete, plastic, bitumen, wood, glass, etc.
NICOBAND DUO can be used in all climatic zones (as determined in Construction Regulation SP 131.13330).

Method of application

The surface must be clean, dry, and free from rust and dust. For a better and more durable bond, prime coating of foundation is recommended. The surface and material temperature should be at least +5°C. At lower temperatures it is necessary to heat the adhesive side of the material and the foundation. It is not recommended to apply the band on hot vertical surfaces (with an angle of slope >55° and temperature above +80°C).

Storage

Store in a place protected from atmospheric precipitation and direct sunlight.



Basic dimensions

Width, cm	10
Length 3m	yes
Length 10 m	yes

NICOBAND INSIDE

STO 72746455-3.1.6-2014

Inner waterproofing

Self-adhesive material

Convenient installation

Water tightness

10 YEARS
Service life



Description of the material

NIKOBAND INSIDE is a self-adhesive sealing band for internal work. NIKOBAND INSIDE is produced by applying self-adhesive polymer bitumen layer on one side of protective anti-adhesion polymer film. Non woven polypropylene Spunbond is used as a protective layer on the other side of self-adhesive composition allowing laying tiles directly on NIKOBAND INSIDE, without protective screed. NIKOBAND INSIDE can be used in all climatic zones (as determined in Construction Regulation SP 131.13330).

Method of application

The surface must be clean, dry, and free from rust and dust. For a better and more durable bond, prime coating of foundation is recommended. The surface and material temperature should be at least +5°C. At lower temperatures it is necessary to heat the adhesive side of the material and the foundation. It is not recommended to apply the band on hot vertical surfaces (with an angle of slope >55° and temperature above +80°C).

Storage

Store in a place protected from atmospheric precipitation and direct sunlight.

Basic dimensions

Width, cm	10
Length 3m	yes
Length 10 m	yes

LOGICROOF V-RP

STO 72746455-3.4.1-2013

Polymer roofing membrane

Durability

UV radiation resistant strength

High speed of laying

−20° +50°
Range of operation temperatures

High fire resistant qualities: G2

Description of the material

Waterproofing membrane reinforced with polyester mesh, on a high-quality plasticized polyvinylchloride (PVC) base. It is used as a waterproofing layer in roofing systems with mechanic fastening.
It is stabilized against UV-radiation through the use of the TRI-P® system. Contains fire-retardants and special stabilizers. It has enhanced elasticity for easy installation at a low temperature.
Used in roofing systems mechanically fastened to the foundation.
Available are colored membranes: white, blue, green and red.

Method of application

LOGICROOF PVC membrane is installed in one layer and is welded using hot air automatic equipment.
Direct contact with any materials containing bitumen or solvents and with extruded heat insulation (EPS, XPS, foamglass) should be avoided.

Storage

Rolls should be stored horizontally on pallets in their original packing, in a place protected from sunlight, rain and snow. Storage in two tiers with rigid spacers between them is allowed. Guaranteed shelf life is 18 months from manufacturing date.

PREMIUM



Basic physical and mechanical properties

	LOGICROOF V-RP
Type of polymer	PVC
Reinforcement	polyester
Thickness, mm	1.2-2.0
Tensile strength, N/50 mm	
Along the roll	>1.100
Across the roll	>900
Tensile break elongation, %	>19
Water absorption, mass%, not more than	0.2
Bend point on R=5 mm beam, °C	-50
Flammability group	G2

LOGICROOF V-RP FR

STO 72746455-3.4.1-2013

Polymer roofing membrane

- Durability
- UV radiation resistant strength
- High speed of laying
- −15° +50° Range of operation temperatures
- High fire resistant qualities – G1

PREMIUM



Description of the material

Waterproofing membrane reinforced with polyester mesh, on a high-quality plasticized polyvinylchloride (PVC) base. It is used as a waterproofing layer in roofing systems with mechanic fastening.
It is stabilized against UV-radiation through the use of the TRI-P® system.
Contains fire-retardants and special stabilizers.
It has enhanced elasticity for easy installation at low temperatures. It has enhanced fire resistant qualities.

Method of application

LOGICROOF PVC membrane is installed in one layer and is welded using hot air automatic equipment.
Direct contact with any materials containing bitumen or solvents and with extruded heat insulation (EPS, XPS, foamglass) should be avoided.

Storage

Rolls should be stored horizontally on pallets in their original packing, in a place protected from sunlight, rain and snow. Storage in two tiers with rigid spacers between them is allowed. Guaranteed shelf life is 18 months from manufacturing date.

Basic physical and mechanical properties

	LOGICROOF V-RP FR
Type of polymer	PVC
Reinforcement	polyester
Thickness, mm	1.2-2.0
Tensile strength, N/50 mm	
Along the roll	>1.100
Across the roll	>900
Tensile break elongation, %	>19
Water absorption, mass%, not more than	0.2
Bend point on R=5 mm beam, °C	-45
Flammability group	G1

LOGICROOF V-RP ARCTIC

STO 72746455-3.4.1-2013

Polymer roofing membrane

- Durability
- UV radiation resistant strength
- High speed of laying
- −25° +50° Range of operation temperatures
- High fire resistant qualities – G2

Description of the material

Waterproofing membrane reinforced with polyester mesh, on a high-quality plasticized polyvinylchloride (PVC) base. It is used in cold regions as a waterproofing layer in roofing systems with mechanic fastening. It is stabilized against UV-radiation through the use of the TRI-P® system.
Contains fire-retardants and special stabilizers.
It has enhanced elasticity for easy installation at low temperatures. It has enhanced fire resistant qualities

Method of application

LOGICROOF PVC membrane is installed in one layer and is welded using hot air automatic equipment.
Direct contact with any materials containing bitumen or solvents and with extruded heat insulation (EPS, XPS, foamglass) should be avoided.

Storage

Rolls should be stored horizontally on pallets in their original packing, in a place protected from sunlight, rain and snow. Storage in two tiers with rigid spacers between them is allowed. Guaranteed shelf life is 18 months from manufacturing date.

Roofing and waterproofing materials



Basic physical and mechanical properties

	V-RP ARCTIC
Type of polymer	PVC
Reinforcement	polyester
Thickness, mm	1.2-2.0
Tensile strength, N/50 mm	
Along the roll	>1.100
Across the roll	>900
Tensile break elongation, %	>19
Water absorption, mass%, not more than	0.2
Bend point on R=5 mm beam, °C	-55
Flammability group	G2

LOGICROOF V-GR

STO 72746455-3.4.1-2013

Polymer roofing membrane

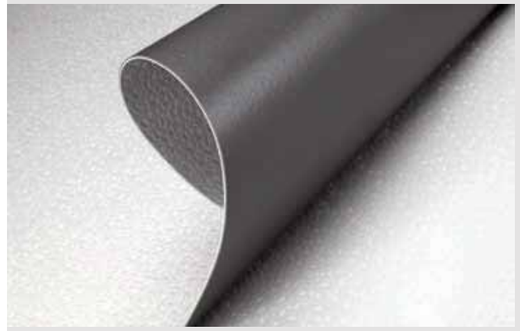
Durability

UV radiation resistant

High speed of laying

Range of operation temperatures −15° +50°

High fire resistant qualities: G4



Description of the material

Glass fiber reinforced roofing PVC membrane, on a high-quality plasticized polyvinylchloride (PVC) base. It is used for the waterproofing of ballasted roofing systems. It has enhanced puncture resistance.

Method of application

LOGICROOF PVC membranes are laid in one layer and are welded using hot air automatic equipment.
Direct contact with any materials containing bitumen or solvents and with extruded heat insulation (EPS, XPS, foamglass) should be avoided.

Storage

Rolls should be stored horizontally on pallets in their original packing, in a place protected from sunlight, rain and snow. Storage in two tiers with rigid spacers between them is allowed. Guaranteed shelf life is 18 months from manufacturing date.

Basic physical and mechanical properties

	V-GR
Type of polymer	PVC
Reinforcement	glass fiber
Thickness, mm	1.5-2.4
Tensile strength, N/50 mm	
Along the roll	≥800
Across the roll	≥600
Max tensile stress elongation, %	>200
Water absorpt on, mass%, not more than	0.6
Bend point on R=5 mm beam, °C	-40
Flammability group	G4

LOGICROOF V-GR FLEECE BACK

STO 72746455-3.4.1-2013

Polymer roofing membrane

Durability

UV radiation resistant

High speed of laying

Range of operation temperatures −20° +50°



Description of the material

Roofing PVC membrane on a high-quality plasticized polyvinylchloride (PVC) base reinforced with fiber mat, with fleece underlayer from laminated geotextile. It is stabilized against UV-radiation with TRI-P® system. Contains fire-retardants and special stabilizers. Face surface has special anti-slip embossment.

Method of application

It is used for the waterproofing of single-layer adhesive membrane systems. Owing to the layer of laminated geotextile, the membrane can be glued to various foundations: concrete, metal, PIR based heat insulating blocks, and rolled bitumen materials.
Direct contact with any materials containing bitumen or solvents and with extruded heat insulation (EPS, XPS, foamglass) should be avoided.

Storage

Rolls should be stored horizontally on pallets in their original packing, in a place protected from sunlight, rain and snow. Storage in two tiers with rigid spacers between them is allowed. Guaranteed shelf life is 18 months from manufacturing date.

Basic physical and mechanical properties

	V-GR FLEECE BACK
Type of polymer	PVC
Reinforcement	glass fiber
Thickness, mm	1.5-2.4
Tensile strength, N/50 mm	
Along the roll	>800
Across the roll	>600
Max tensile stress elongation, %	>200
Water absorption, mass%, not more than	0.5
Bend point on R=5 mm beam, °C	-40
Flammability group	G3

Roofing and waterproofing materials

LOGICROOF V-SR

STO 72746455-3.4.1-2013

Polymer roofing membrane

- Durability
- UV radiation resistant
- High speed of laying
- Range of operation temperatures: −20° +50°



Description of the material

Unreinforced roofing membrane on a base of high-quality plasticized polyvinylchloride (PVC). It is stabilized against UV-radiation through the use of the TRI-P® system. Contains fire-retardants and special stabilizers. It has enhanced elasticity for easy installation at a low temperature. It is used in the elements reinforcing the roofing and in places where it interfaces with various roofing structures, such as pipes, funnels, and masts.

Method of application

LOGICROOF PVC-membrane is installed in one layer and is welded using hot air automatic equipment. Contact with any materials containing bitumen or solvents and polystyrene foam (EPS, XPS, foamglass) should be avoided.

Storage

Rolls should be stored horizontally on pallets in their original packing, in a place protected from sunlight, rain and snow. Storage in two tiers with rigid spacers between them is allowed. Guaranteed shelf life is 18 months from manufacturing date.

Basic physical and mechanical properties

	LOGICROOF V-SR
Type of polymer	PVC
Reinforcement	no reinforcement
Thickness, mm	1.5; 1.8
Tensile strength, N/50 mm	
along the roll	–
across the roll	-
Max tensile stress elongation, %	>200
Water absorption, mass%, not more than	0.1
Bend point on R=5 mm beam, °C	-40
Flammability group	G4

ECOPLAST V-RP

STO 72746455-3.4.1-2013

Polymer roofing membrane

- Durability
- High elasticity
- Range of operation temperatures: −15° +50°
- High speed of laying
- Anti-slip embossed surface
- Repair capability of polymer membrane system



Description of the material

Roofing polymer membrane reinforced with polyester mesh. It is stabilized against UV-radiation through the use of TRI-P® system. Contains fire-retardants and special stabilizers. Used for the waterproofing of open flat roofs in systems with mechanical fastening to the foundation. It has enhanced elasticity for easy installation at a low temperature.

Method of application

ECOPLAST PVC-membranes are installed in one layer and welded using hot air supplied by automatic equipment. Contact with all materials containing bitumen, grease or solvents, and heat insulating expanded foam materials (EPS, XPS, or foamglass) should be avoided.

Storage

Rolls should be stored horizontally on pallets in their original packing, in a place protected from sunlight, rain and snow. Storage in two tiers with rigid spacers between them is allowed. Guaranteed shelf life of a polymer membrane is 18 months from manufacturing date.

Basic physical and mechanical properties

	ECOPLAST V-RP
Type of polymer	PVC
Reinforcement	polyester
Thickness, mm	1.2–2.0
Tensile strength, N/50 mm	
along the roll	≥1100
across the roll	≥900
Max tensile stress elongation, %	≥15
Water absorption, by weight, %, not more than	0.3
Bend point on R=5 mm beam, °C	−45
Static puncture resistance, kg	≥20
Flammability group	G2

Roofing and waterproofing materials

ECOPLAST V-RP SIBERIA

STO 72746455-3.4.1-2013

Polymer roofing membrane

- Durability
- High elasticity
- Range of operation temperatures: −20° +50°
- High speed of laying
- Anti-slip embossed surface
- Repair capability of polymer membrane system



Description of the material

Roofing polymer membrane reinforced with enhanced flexibility polyester mesh. It has been specially developed for use in cold climate regions as a waterproofing layer in roofing systems with mechanical fastening. It is stabilized against UV-radiation through the use of TRI-P® system. Contains fire-retardants and special stabilizers. It has enhanced elasticity for easy installation at a low temperature.

Method of application

ECOPLAST PVC-membranes are installed in one layer and welded using hot air supplied by automatic equipment. Contact with all materials containing bitumen or solvents, and heat insulating expanded foam materials (EPS, XPS, or foamglass) should be avoided.

Storage

Store the rolls horizontally on pallets in their original packing, in a place protected from sunlight, rain and snow. Storage in two tiers with rigid spacers between them is allowed. Guaranteed shelf life of a polymer membrane is 18 months from manufacturing date.

Basic physical and mechanical properties

	ECOPLAST V-RP SIBERIA
Type of polymer	PVC
Reinforcement	polyester
Thickness, mm	1.2–2.0
Tensile strength, N/50 mm	
along the roll	≥1100
across the roll	≥900
Max tensile stress elongation, %	≥15
Water absorption, by weight, %, not more than	0.3
Bend point on R=5 mm beam, °C	−50
Static puncture resistance, kg	≥20
Flammability group	G2

LOGICBASE V-SL

STO 72746455-3.4.3-2015 EN13967:2012

PREMIUM

Polymer membrane for the waterproofing of underground parts of constructions

- Potential service life 100 years
- High speed of laying
- Yellow signal layer
- High tensile strength
- Resistance to root sprouting

Description of the material

Unreinforced double-layer membrane for the waterproofing of underground parts of constructions. It is produced on the base of a high-quality plasticized polyvinylchloride (PVC) with a yellow signal layer. Standard length of the roll is 20m.Rolls of irregular length may be manufactured on order.

Appearance

Smooth surface with TECHNONICOL logo; top layer is a yellow signal layer; bottom layer is black.

Method of application

It is used for the waterproofing of constructions and underground engineering structures, including transport and hydraulic tunnels.

Storage

Each roll is packed in the individual polyethylene protection film. Store the rolls horizontally on pallets in their original packing, in a place protected from sunlight, rain and snow. Storage in two tiers with rigid spacers between them is allowed.



Basic physical and mechanical properties

	LOGICBASE V-SL
Tensile strength at break, MPa, at least	
along the roll	16
across the roll	15
Elongation at max load, %, not more than	350
Crack resistance at the nail shank, N, at least	150
Bend point on R=5 mm beam, cracks are not acceptable, °C, no more than	−45
Water absorption, by weight, %, not more than	0.1
Change in linear dimensions when heated at 80 °C during 6 h, %, not more than	2
Dynamic puncture resistance (iMPact resistance) at sub-zero temperatures, cracks are not acceptable, °C , not more than	−25
Tear strength of weld joint, N, not less than/50 mm	300
Breaking strength of weld joint, N, not less than/50 mm	600
Dynamic puncture resistance (iMPact resistance) on solid foundation (on soft foundation), mm, not less than, for thickness 2.0 mm	1400 (1800)
Static puncture resistance, kg, not less than	20
Water permeability, 1 MPa, during 24 hours	No water penetration traces

Roofing and waterproofing materials

LOGICBASE V-ST

STO 72746455-3.4.3-2015 EN13967:2012

Polymer membrane for the waterproofing of underground constructions

- Durability
- Resistance to root sprouting
- High elasticity
- Resistance to micro-organisms
- High chemical resistance
- High strength

PREMIUM



Description of the material

Waterproofing polymer membrane produced on the base of a high-quality plasticized polyvinylchloride (PVC). The membrane is light green. One side of the material has the specially textured surface preventing two membranes forming a double-layer waterproofing system from sticking together in course of vacuum quality control. Standard thickness of the material is 1.6 mm.

Method of application

It is used for the waterproofing of tunnels, foundations and underground parts of buildings and structures as the second layer in double-layer PVC waterproofing membranes with vacuum quality control. It is also used as a protective layer in LOGICBASE V-SL waterproofing PVC membranes.

Storage

Each roll is packed in the individual polyethylene protection film. Store the rolls horizontally on pallets in their original packing, in a place protected from sunlight, rain and snow. Storage in two tiers with rigid spacers between them is allowed.

Basic physical and mechanical properties

	LOGICBASE V-ST
Tensile strength at break, MPa, at least	
along the roll	12
across the roll	11
Elongation at maximum load, %, not more than	300
Crack resistance at the nail shank, N, at least	150
Bend point on R=5 mm beam, cracks are not acceptable, °C, no more than	–45
Water absorption, by weight, %, not more than	0.1
Change in linear dimensions when heated at 80 °C during 6 h, %, not more than	2
Dynamic puncture resistance (iMPact resistance) at negative temperatures, cracks are not acceptable, °C , not more than	–25
Tear strength of weld joint, N, not less than/50 mm	300
Breaking strength of weld joint, N, not less than/50 mm	600
Dynamic puncture resistance (iMPact resistance) solid foundation (on soft foundation), mm, not less than, for thickness 2.0 mm	700 (1000)
Static puncture resistance, kg, not less than	20
Water permeability, 1 MPa, during 24 hours	No water penetration traces

LOGICPOOL (FOR SWIMMING POOLS)

EN 15836-2

Polymer membrane for the waterproofing of swimming pools

- Durability
- High laying speed
- No-flame laying
- Easy repair
- Retains bright colours

Description of the material

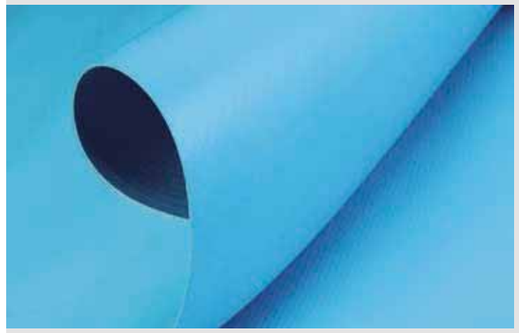
The membrane reinforced with polyester mesh is produced on the base of a high-quality plasticized polyvinylchloride (PVC). The membrane has an acrylic lacquer protective layer providing high wear resistance and eliminating contamination and deterioration in the condition of the membrane. It is resistant to UV radiation and retains bright colours even after long-time operation of the material. It is designed for the decorative and waterproofing lining of water pools.

Method of application

The membrane operates in a wide temperature range between -50 °C and +85°C. Installation is made without the use of naked flame. No flame means no problem. Cleaning the pool lined with LOGICPOOL polymer membrane does not require the use of hazardous chemicals. No additional waterproofing is needed as the membrane performs both decorative and waterproofing functions.

Storage

Store LOGICPOOL rolls in their original packing, on pallets, sorted by grades, in dry closed warehouse, protected from moisture, dust and sunlight.



Basic physical and mechanical properties

	LOGICPOOL V-RP
Thickness (±0.2) mm	1.5
Nominal strength, MPa, at least	15
Elongation at break, %, not less than	60.0
Water absorption, %, not more than	1.0
Change in linear dimensions at (70±2) °C during (6.0±0.1) h, %	±1
Bend point on R=5 mm beam, cracks are not acceptable, °C, no more than	Minus 30
Flammability group	G4
Fire resistance group	V3

PLANTER

STO 72746455-3.4.2-2014

Profiled membrane

- High strength
- Economy
- Ecology friendly
- Resistance to root sprouting
- Easy installation
- Resistance to micro-organisms



Description of the material

One-and two-layer universal polymer membrane is produced from high-density polyethylene and used in industrial, civil, transport and hydraulic engineering. Membranes are produced by forming whole sheets from high density polyethylene (HDPE). The entire face surface of the membranes is made in the form of 8 mm high cone-shaped shoulders.

FIELD OF APPLICATION

PLANTER standard: Protection of embedded structure waterproofing systems during the backfilling of pit hollows; protection of foundation slabs from capillary moisture; protection of damp walls. Also used in accessible roofs and at the replacement of concrete foundation mattress.
PLANTER eco: Protection of foundation and foundation slab waterproofing layer from capillary moisture in cottage and low-rise construction; replacement of concrete foundation mattress.
PLANTER extra: Construction and reconstruction of motorways and slopes; operation in complicated hydrological conditions; protection of waterproofing systems in important projects; replacement of concrete foundation mattress; construction of tunnels and metro system; accessible flat roofing; drainage system during the closed-type construction of tunnels; bed drainage.

Storage

Store indoor, in dry premises, in vertical position.

Basic physical and mechanical properties

	PLANTER EXTRA	PLANTER STANDARD	PLANTER ECO
Mass of 1m^2, kg, not less than	0.8	0.55	0.45
Ultimate compressive strength, kPa, not less than	550	280	200
Max tensile load, N/50 mm, not less than	450	280	200
Elongation at ultimate compression strength, %, not less than	18	20	20
Water absorption by weight, %	0	0	0
Bend point on R=5 mm beam at low temperature, °C, no more than	–45	–45	–45

PLANTER GEO

STO 72746455-3.4.2-2014

Profiled membrane

- 60 YEARS — Service life
- Resistance to root sprouting
- High strength
- Easy installation
- Resistance to micro-organisms
- Economy

Description of the material

High-density polyethylene membrane. Face surface is profiled with formed 8 mm high cone-shaped shoulders with thermobonded geotextile fabric.
Special structure of the surface in form of two bonded layers provides for high water-carrying capacity.

FIELD OF APPLICATION

PLANTER geo: Organization of vertical wall drainage; drainage in ballasted roofing; drainage of pathwalks, perimeter walks and platforms.
PLANTER extra-geo: Organization of 2-10 meter deep vertical wall drainage; bed drainage; cut-and-cover construction of tunnels; installation of ballasted roofing in enhanced reliability projects.

Storage

Store indoor, in dry premises, in vertical position.



Basic physical and mechanical properties

	PLANTER GEO	PLANTER EXTRA-GEO
Sheet thickness, mm	0.6	0.8
Shoulder height, mm	8.0	7.5
Mass of 1m^2, kg, not less than	0.65	0.9
Maximum tensile load, N/50 mm, not less than		
along the roll	420	590
across the roll	420	590
Elongation at maximum load, %, not more than	30	18
Static puncture resistance, method B, kg, not less than	20	20
Bend point on R=5 mm beam at low temperature, not more than	Minus 45	
Water absorption, by weight, %, not more than	1	
Water permeability at min pressure 0.001 MPa during 24 hours	no water penetration traces	
Change in linear dimensions at 80 °C, %, not more than		
along the roll	2.0	
across the roll	2.0	

Roofing and waterproofing materials

BITUMINOUS PRIMER #1 TECHNONICOL

TU 5775-011-17925162-2003

Bituminous primer

- Speedy performance
- Quality guaranteed
- Easy installation
- May be used under sub-zero temperatures
- Ready for use
- High penetration

Application areas

Preparation (prime coating) of foundations prior to the installation of welded-on, glued with mastic or self-adhesive roofing and waterproofing materials. Prime coating is necessary for ensuring reliable adhesion of waterproofing materials to porous, rough and dusty surfaces.

Description of the material

Primer #1 TECHNONICOL is a mixture of high-quality asphalts with a softening point of no lower than 70 °C dissolved in specially selected organic solvents.
It has enhanced dampening ability, penetrability and short drying time. Ready for use primer is immediately applied to the base, thus offering additional convenience and better performance.

Method of application

It is recommended to apply Bituminous primer #1 TECHNONICOL to a treated surface with large or small paint brushes. In this method, the primer is brushed into the surface, saturating and bonding it, and thus ensures a reliable adhesion of the waterproofing coating to the foundation. Primer surface coverage is 0.25–0.35 l/m^2 (1 l of primer per 3.33 m^2).

Storage

Store in dry place protected against sunlight, at a temperature between –20°C and +30°C. Guaranteed storage period is 18 months.



Basic physical and mechanical properties

	BITUMINOUS PRIMER #1 TECHNONICOL
Non-volatile matter content, %	45–55
Drying time at 20 °C, h, not less than	12
Relative viscosity, c, within	15–40
Softening point, °C, not below	70

PRIMER #1 TECHNONICOL CONCENTRATE

TU 5775-011-17925162-2003

Concentrated bituminous primer

- Easy installation
- Durability
- Easy installation
- Quality guaranteed
- May be used under sub-zero temperatures
- Economy

Application areas

Preparation (prime coating) of foundations prior to the installation of welded-on, glued with mastic or self-adhesive roofing and waterproofing materials.

Description of the material

Primer #1 TECHNONICOL Concentrate is a mixture of high-quality asphalts with a softening point of no lower than 70 °C dissolved in specially selected organic solvents.
It has enhanced dampening ability, penetrability and short drying time.

Method of application

Concentrated primer should be diluted before the start of work. Possible diluents are kerosene, petrol and white spirit. Bituminous primer is diluted in proportion 1:1 – 1:1.5 by mass. It is recommended to apply Bituminous primer #1 TECHNONICOL to the treated surface with large or small paint brushes. In this method, the primer is brushed into the surface, saturating and bonding it, and thus ensures a reliable adhesion of the waterproofing coating to the foundation. Primer surface coverage is 0.25–0.35 l/m^2 (1 l of primer per 3.33 m^2).

Storage

Store in dry place protected against sunlight, at a temperature between –20°C and +30°C. Guaranteed storage period is 18 months.



Basic physical and mechanical properties

	PRIMER #1 TECHNONICOL CONCENTRATE
Drying time at 20 °C, h, not less than	12
Volatile matter content, %	35–40
Softening point, °C, not below	70
Relative viscosity, c, within	10–30

Roofing and waterproofing materials

PRIMER #3 TECHNONICOL

TU 5775-042-17925162-2006

Polymer-bituminous primer

- Reliable surface anticorrosion protection
- May be used under sub-zero temperatures
- Enhanced adhesion
- Quality guaranteed
- Easy application on complicated geometry surfaces



Application areas

Polymer bituminous primer #3 TECHNONICOL is used for the treatment of bridge span elements prior to the installation of waterproofing materials and for the prime coating of sand-cement, concrete, metal, and other surfaces prior to the installation of welded-on, glued with mastic or self-adhesive waterproofing materials.

Description of the material

Polymer bituminous primer #3 TECHNONICOL is a mixture of oil bitumens, polymer and adhesion additives dissolved in organic solvents.
The material is quick drying and reliably protects metal surface against corrosion prior to the installation of the waterproofing layer. After the installation of the waterproofing system, the primer enhances the adhesion of welded-on material with the foundation.

Method of application

The primer is applied using large and small paint brushes, rollers or an airless spraying unit. Primer surface coverage is 0.25–0.35 l/m^2 (1 l of primer per 3.33 m^2).

Storage

Store in dry place protected against sunlight, at a temperature between –20°C and +30°C. Guaranteed storage period is 12 months.

Basic physical and mechanical properties

	PRIMER #3 TECHNONICOL
Non-volatile matter content, %	25–30
Drying time at 20 °C, min, not less than	15
Relative viscosity, c, within	10–30

BITUMINOUS PRIMER #4 TECHNONICOL

TU 5775-006-72746455-2007

Bituminous emulsion primer

- Easy application
- Water based
- Speedy performance
- Safe operation
- Easy application on complicated geometry surfaces
- Jointless waterproof insulation

Application areas

Preparation (prime coating) of foundations prior to the installation of welded-on, glued with mastic or self-adhesive roofing and waterproofing materials. Installation of waterproofing inside the buildings and constructions.

Description of the material

Polymer bituminous primer #4 TECHNONICOL is produced on the base of butumens dispersed in water. The material does not contain solvents, it has neutral odour and is ideal for work inside residential premises.

Method of application

It is recommended to apply the primer on the treated surface with large or small paint brushes. Application temperature is between +5 and +40 °C. Dilute with water if necessary.
Primer surface coverage is 0.25–0.35 l/m^2 (1 l of primer per 3.33 m^2).

Storage

Store in dry place protected against sunlight, at a temperature between –20°C and +30°C. Guaranteed storage period is 12 months.

ECO



Basic physical and mechanical properties

	PRIMER #4 TECHNONICOL
Bitumen with emulsifier content	25–40
Softening point, °C, not less than	75
Relative viscosity, c, within	5–30
Drying time at 20 °C, h, not less than	1

Roofing and waterproofing materials

MASTIC #21 TECHNONICOL TECHNOMAST

TU 5775-018-17925162-2004

Roofing mastic

- Jointless waterproof insulation
- Durability
- High strength
- Safe operation
- Quality guaranteed
- Easy application on complicated geometry surfaces



Application areas

Application areas for roofing mastic #21 TECHNONICOL:
– installation of mastic roofing and repair of all kinds of roofing;
– waterproofing of engineering structures (basements, cellars, piles and other facilities buried in the ground or in contact with the damp environment);
– waterproofing and anticorrosion treatment of metal surfaces, including pipelines and car bodies.

Description of the material

Roofing mastic #21 TECHNONICOL is completely ready for use.
The mastic consists of synthetic rubber modified oil bitumen, mineral fillers and an organic solvent.
It forms a high-strength coating operable in a wide range of temperatures. It significantly increases service life of protected structures.

Method of application

The mastic is applied on treated surface with a paint brush, filling knife or by pouring and levelling. Thickness of each layer should not exceed 1.5 mm. Apply each layer after the preceding layer has dried. It is advised to apply at least two layers.
Mastic surface coverage:
— mastic roof installation: 3.8–5.7 kg/m^2;
— waterproofing insulation: 2.5–3.5 kg/m^2.

Storage

Store in a dry place protected against sunlight, at a temperature between –20°C and +30°C. Guaranteed storage period is 18 months.

Basic physical and mechanical properties

	TECHNONICOL ROOFING MASTIC #21
Adhesion to the foundation, MPa	
concrete	0.6
metal	0.9
Adhesion between layers, MPa, not less than	
rolled material/rolled material	0.3
rolled material/concrete	0.4
Shear strength of glued bond, kN/m, not less than	4
Nominal strength, MPa, not less	1
Elongation at break, %, not more than	500
Water absorption in 24 h, by weight, %, not more than	0.4
Non-volatile matter content, %	50
Thermal endurance, °C not less than	110
Bend point on R=5.0 mm beam at -35°C, not more than	no cracks
Water permeability at 0.1 MPa during 24 hours	test passed

MASTIC #24 TECHNONICOL (MGTN)

TU 5775-034-17925162-2005

Waterproofing mastic

- Jointless waterproof insulation
- Quality guaranteed
- Safe operation
- Durability
- Easy application
- Easy application on complicated geometry surfaces

Application areas

Waterproofing mastic #24 TECHNONICOL is used for the waterproofing of concrete, wood and other engineering structures (basements, cellars, piles);

Description of the material

Mastic #24 TECHNONICOL is a ready-for-use material based on oil bitumen containing process additives, mineral fillers and solvent.

Method of application

The mastic is applied to a treated surface with a paint brush, a spreader, or by pouring it and levelling with special combs. Mastic surface coverage for one layer is no more than 0.7 kg per 1 m^2. It is advised to apply 2-3 layers for waterproof insulation.

Storage

Store in a dry place protected against sunlight, at a temperature between –20°C and +30°C. Guaranteed storage period is 18 months.



Basic physical and mechanical properties

	TECHNONICOL ROOFING MASTIC #24 (MGTN)
Adhesion to the foundation, MPa	
concrete	0.1
metal	0.1
Shear strength of glued bond, kN/m, not less than	2.0
Water absorption in 24 h, by weight, %, not more than	0.4
Non-volatile matter content, %	65
Softening point, °C not less than	80
Relative viscosity, c, not less than	10
Bend point on R=5.0 mm beam at -35°C, not more than	no cracks
Water permeability at 0.03 MPa during 10 minutes	test passed

MASTIC #31 TECHNONICOL

TU 5775-007-72746455-2007

Roofing and waterproofing emulsion mastic

- Easy application
- Speedy performance
- Jointless waterproof insulation
- Safe operation
- Quality guaranteed
- Easy application on complicated geometry surfaces

ECO



Application areas

Mastic #31 TECHNONICOL has the following application areas:

— surface waterproofing for indoor premises (bathrooms, balconies, cellars);
— installation of mastic roofing and repair of all kinds of roofing systems (in combination with glass fabric rolled materials, and without them)
— installation of roof cladding protection layers;
— waterproofing of engineering structures (basements, cellars, piles, and other facilities buried in the ground or in contact with the damp environment).

Description of the material

Emulsion Mastic #31 TECHNONICOL is completely ready to use. It consists of an aqueous emulsion of oil bitumen modified by synthetic rubber, processing mineral additives and organic solvent. Mastic based coatings have enhanced elasticity and thermal and moisture resistance. The material is water-based and does not contain solvents, has neutral odour and is ideally suited for work in interior premises.

Method of application

Mastic #31 TECHNONICOL is applied layer by layer using a paint brush, a roller, or by pouring and levelling with special combs.
Application temperature is between +5 °C and +30 °C.
Mastic surface coverage: for mastic roof installation: 3.8–5.7 kg/m^2; for waterproofing installation: 2.5–3.5 kg/m^2.

Storage

Store in a dry place protected against sunlight, at a temperature not less than +5 °C. Guaranteed storage period is 6 months.

Basic physical and mechanical properties

	ROOFING MASTIC #31 TECHNONICOL
Adhesion to concrete, MPa, not less than	0.45
Nominal strength, MPa, not less	0.5
Elongation at break, %, not more than	700
Water absorption in 24 h, by weight, %, not more than	1
Mass content of binder with emulsifier, %, within	50-70
Thermal endurance, °C not less than	95
Bend point on R=5.0±0.2 mm beam at -15°C, not more than	no cracks
Water permeability at 0.03 MPa during 10 minutes	test passed

MASTIC #33 TECHNONICOL (SPRAYED)

TU 5775-045-72746455-2010

Roofing and waterproofing emulsion mastic

- Speedy performance
- Durability
- Jointless waterproof insulation
- Easy application on complicated geometry surfaces
- Safe operation

Application areas

Application areas for the roofing mastic #33 TECHNONICOL:

— Installation of mastic roofing and repair of all kinds of roofing;
— waterproofing of engineering structures (basements, cellars, piles and other facilities buried in the ground or in contact with damp environment).

Description of the material

Mastic #33 TECHNONICOL (sprayed) is a latex modified water-emulsion composition produced by dispersion of bitumens in a water solution of emulsifiers. It does not contain solvents. Mechanized application drastically reduces the time needed to carry out the work. Coatings are operable in a wide range of temperatures.

Method of application

Mastic #33 TECHNONICOL can be applied both manually and mechanically (an airless spraying unit). To cut curing time, the mastic is applied together with a coagulant solution (a water solution of calcium chloride) using a two-channel dispenser. Coverage for a 2 mm layer is about 4.5-5.5 kg/m^2.

Storage

Store in a dry place protected against sunlight, at a temperature not less than +5 °C. Guaranteed storage period is 6 months.

ECO



Basic physical and mechanical properties

	TECHNONICOL ROOFING MASTIC #33
Adhesion to concrete, MPa, not less than	0.6
Nominal strength, MPa, not less	0.7
Elongation at break, %, not more than	900
Water absorption in 24 h, by weight, %, not more than	0.4
Binder with emulsifier mass content, %, within	53-65
Thermal endurance, °C not less than	140
Bend point on R=5.0±0.2 mm beam at -25°C, not more than	no cracks
Water permeability at 0.1 MPa during 24 hours	test passed

MASTIC #57 TECHNONICOL

TU 5775-024-72746455-2009

Protection mastic, aluminum pigmented

- Ready for use
- Surface protected against heating
- Easy application on complicated geometry surfaces
- Speedy performance
- Durability
- Quality guaranteed



Application areas

Reflective mastic for the protection of roofs against UV-radiation and thermal ageing.
It is used for:
— installation of protective layer in new bitumen and polymer-bitumen mastic roofing;
— recovery of protective layer on old bitumen and polymer-bitumen mastic and rolled roofing;
— corrosion protection of metal roofing.

Description of the material

Protective aluminum pigmented mastic #57 TECHNONICOL is a multicomponent compound including polymer modified oil bitumen, aluminum pigment, process additives and organic solvent. Elastic insulating coating formed by the mastic effectively protects bitumen roofing against UV-radiation and heating, and metal roofs against corrosion.

Method of application

Before and during application carefully stir the mastic for the uniform distribution of the aluminum pigment.
Apply the mastic using a small paint brush, a roller, or an airless spraying unit. It is recommended to apply two layers of the mastic. Surface coverage for one layer is:
– on mastic roofing: 0.4 kg/m^2;
– on old rolled roofing: 0.6 kg/m^2;
– on metal roofing: 0.4 kg/m^2.

Storage

Store in a dry place protected against sunlight, at a temperature between –20 °C and +30 °C. Guaranteed storage period is 18 months.

Basic physical and mechanical properties

	TECHNONICOL ROOFING MASTIC #57
Color stability in climate control system, not less than	2
Adhesion to base, MPa, not less than	
concrete	0.3
metal	0.3
Adhesion between layers, MPa, not more than	
rolled material/rolled material	0.2
Nominal strength, MPa, not less	0.2
Elongation at break, %, not more than	200
Water absorption in 24 h, by weight, %, not more than	2
Non-volatile matter content, %, not less than	50
Thermal endurance, °C not less than	100
Bend point on R=5.0±0.2 mm beam at -15°C, not more than	no cracks

ASPHALT LACQUER #25 TECHNONICOL

TU 2311-035-17925162-2005

Asphalt lacquer

- Speedy performance
- Resistant to aggressive environment
- Easy application
- Easy application on complicated geometry surfaces
- Ready for use
- For all seasons

Application areas

TECHNONICOL asphalt lacquer #25 is designed for the protective coating of metal structures and products, as well as concrete and other rigid surfaces, for the preparation of antiseptic solutions to protect wood, and for the manufacture of aluminum paint.

Description of the material

The asphalt lacquer is a solution of oil bitumen in organic solvents with synthetic modifying additives and siccatives. After drying, a firm black glossy coat is formed with enhanced atmospheric resistance.

Method of application

Apply one or several layers using a small paint brush or a roller, or by dipping. Lacquer surface coverage:
– for metal surfaces: 0.2 l/m^2;
– for concrete and wooden surfaces: 0.3 l/m^2.

Storage

Store in a dry place protected against sunlight, at a temperature between –20°C and +30°C. Guaranteed storage period is 18 months..



Basic physical and mechanical properties

	TECHNONICOL ASPHALT LACQUER #25
Non-volatile matter content, %	45-55
Relative viscosity at 20 °C by V3-4 type Viscometer, s	20-65
Drying time to Level 3, not more than:	
at 20 °C	24 hours
at 100-100 °C	20 minutes
Elasticity of film when bent, mm, no more than	1.0
Hardness of film by M-3 rocker equipment, arbitrary meas. units, not less than	0.2
Static water resistance at 20°C, h, not less than	48
Static 3% NaCl solution resistance at 20°C, h, not less than	3.0

Roofing and waterproofing materials

MASTIC #22 TECHNONICOL (VISHERA)

TU 5775-020-17925162-2004

Adhesive mastic

- Jointless waterproofing
- Flameless installation
- Durability
- Quality guaranteed
- Ready for use
- Reliable adhesion



Application areas

Adhesive mastic #22 TECHNONICOL is used for the adhesion of rolled bitumen and polymer-bitumen roofing materials and waterproofing materials (without a film) to concrete, metal, sand-cement and other surfaces.

Description of the material

The mastic is a multicomponent compound consisting of polymer modified bitumen, fillers, solvent and processing additives. Lying on mastic which does not require use of fire allows for combining the advantages of rolled-material roofing and jointless solid mastic roofing. Waterproofing material cannot be overburnt if it is installed on this mastic. Using the mastic also allows installing materials on combustible foundations.

Method of application

Adhesive mastic #22 TECHNONICOL is distributed along the foundation with a notched spreader or a special comb. Mastic surface coverage: 0.8–1.8 kg per 1 m^2, depending on the foundation.

Storage

Store in a dry place protected against sunlight at a temperature between –20°C and +30°C. Guaranteed storage period is 18 months.

Basic physical and mechanical properties

	MASTIC #22 TECHNONICOL (VISHERA)
Adhesion to the foundation, MPa	
concrete	0.6
metal	0.45
Adhesion between layers, MPa, not less than	
rolled material/rolled material	0.3
rolled material/concrete	0.3
Shear strength of glued bond, kN/m, not less than	4
Non-volatile matter content, %	70
Thermal endurance, °C	95

MASTIC #23 TECHNONICOL FIXER

TU 5775-017-17925162-2004

Mastic for flexible shingles

- Reliable adhesion
- Easy application
- Ready for use



Application areas

Mastic #23 TECHNONICOL is designed for:

— sizing the joints between flexible shingles or other bitumen-based materials;

— creating adhesion of bitumen materials to brick, concrete, metal, wood, ceramic and other surfaces.

Description of the material

Mastic #23 TECHNONICOL is a multicomponent material consisting of bitumen, butadiene-styrene thermoplastic elastomer or its modifications, filler, solvent and processing additives.

Method of application

Clear the surface of dust, oil, ice and other contamination. Mastic application on a damp surface is restricted. When applied to porous foundations, first prime-coat the surface using a bitumen primer. Wait until the primer is fully dried. Carefully mix the mastic before application, distribute the mastic using a spreader along one of the surfaces to be bonded; layer thickness should be 0.5–1.0 mm. Connect the surfaces, avoiding formation of folds and bubbles. Special pressing rollers are recommended. Roll-press surfaces until the mastic comes out of a joint. Application temperature range is from –5°C to +40°C. When applying at low temperatures, hold the mastic at room temperature for 24 hours at least.

Storage

Store in a dry place protected against sunlight at a temperature between –20°C and +30°C. Guaranteed storage period is 18 months.

Basic physical and mechanical properties

	MASTIC #23 TECHNONICOL FIXER
Adhesion to the foundation, MPa	
concrete	0.5
metal	0.8
Adhesion between layers, MPa, not less than	
rolled material/rolled material	0.5
rolled material/concrete	0.5
Shear strength of glued bond, kN/m, not less than	4.0
Nominal strength, MPa, not less than	75
Thermal endurance	110

Roofing and waterproofing materials

MASTIC #27 TECHNONICOL

TU 5775-039-72746455-2010

Adhesive mastic

- Speedy performance
- Quality guaranteed
- Easy application on complicated geometry surfaces
- Easy application
- Durability
- For all seasons



Application areas

Mastic #27 TECHNONICOL is designed for the adhesion of extruded polystyrene foam slabs to bitumen and polymer-bitumen insulation materials, as well as to concrete, metal, and wooden surfaces in foundation insulation systems.

Description of the material

Adhesive mastic #27 TECHNONICOL is produced from oil bitumen, a mixture of special fillers and organic solvent. The mastic has pasty consistency, which provides for reliable fixing of heat-insulating slabs on vertical surfaces. The material is immediately ready for use and it is easy in application.

Method of application

The mastic is applied in the form of dots using a spreader or a comb. The mastic should be applied to all corners and in the centre of a slab to be fixed. When applying in dots, at least ten dot-like stains should be applied per square meter using 50-80 g for each stain. The stains are distributed at regular intervals, 10 pieces per 1 m^2. Mastic surface coverage is 0.5–1.0 kg/m^2.

Storage

Store in a dry place protected against sunlight at a temperature between –20°C and +30°C. Guaranteed storage period is 18 months.

Basic physical and mechanical properties

	MASTIC #27 TECHNONICOL
Adhesion to the foundation, MPa	
concrete	0.1
metal	0.1
Shear strength of glued bond, kN/m, not less than	0.1
Non-volatile matter content, %	80-90
Thermal endurance	90

GLUE FOR RUBEROID AND STEKLOISOL

TU 5775-075-72746455-2013

Glue for ruberoid and stekloisol

- No dangerous hot work
- Durability
- Speedy performance
- Easy application

Application area

The glue is designed for work with ruberoid (grades RKP, RPP and RKK), stekloisol and other rolled bituminous materials with sand and talc protective layer. It is used for the adhesion to concrete foundations and foundations from rolled bituminous materials on any slopes with a gradient up to 11%.

Description of the material

The glue for ruberoid TECHNONICOL is a homogeneous multicomponent mix consisting of bitumen, filler, solvent and processing additives.

Method of application

The glue is applied to foundation with a notched spreader of a special comb, in 1 layer, not more than 2 mm thick. Recommended length of the comb tooth is 4 mm. Average surface coverage is 1.5-2.0 kg/m^2.

The glue for ruberoid TECHNONICOL is used at temperatures between +5°C and +35°C. At temperatures below +5°C the glue should be held at room temperature for at least 24 hours. Do not use near open flame. Work with the glue in well-ventilated rooms. Avoid getting on the skin and in the eyes.

Storage

Store in a dry place protected against sunlight at a temperature between –20°C and +30°C. Guaranteed storage period is 18 months.



Basic physical and mechanical properties

	GLUE FOR RUBEROID AND STEKLOISOL
Adhesion to concrete, MPa, not less than	0.4
Thermal endurance, °C	80
Shear strength of glued bond, kN/m, not less than	0.7
Water permeability at 0.03 MPa during 10 minutes	test passed

Roofing and waterproofing materials

MASTIC MBK-G TECHNONICOL

TU 5775-017-72746455-2008

Hot-applied bitumen roofing mastics MBK-G

Durability

Quality guaranteed



Application areas
Mastic MBK-G TECHNONICOL is designed for the adhesion of economy-class rolled bitumen materials, crack sealing, levelling of foundation defects up to 5 mm deep, and surface waterproofing.

Description of the material
MBK-G series mastics are economy-class products. They consist of a mix of oxidized bitumen and a package of mineral fillers. MBK-G mastics have sufficient penetration ability and have good water-repellent and adhesive properties. The mastic can be used in all climatic zones as per Construction Codes and Regulation (SNiP) 23-01.

Method of application
Warm up the mastic to a temperature of 160-180°C stirring at a steady pace, and apply while still liquid to a dust-free primer-coated base with a spreader, a paint brush, or by pouring and leveling with special combs (spreading knifes). After cooling, a strong coating is formed with good adhesion to the foundation.

Storage
Store in a dry place protected against sunlight at a temperature between –20°C and +30°C.

Basic physical and mechanical properties

	MBK-G	MBK-G EURO	MBK-G EURO 2
Softening point (BAR), °C	85	82	80
Needle penetration at 25°C, 0.1 mm	7-30	8-31	9-32
Adhesion to the foundation, MPa			
concrete	0.1	0.15	0.2
steel	0.1	0.15	0.2
Shear strength of glued bond, kN/m, not less than	4	4	4

MASTIC #41 (EVRICA) TECHNONICOL

TU 5775-010-17925162-2003 with amend. 1

Hot-applied roofing mastic

Effective under sub-zero temperatures

Economy

Application areas
Hot-applied roofing mastic #41 TECHNONICOL is designed for the installation and repair of roofing (sealing cracks and hollows in cement/sand and asphalt screeds and concrete slabs; restoration of dressing compound of roof cladding; installation of gutter spout funnels; in junctions between roof cladding and pipes and roof cowls; fireless installation of rolled roofing) and waterproofing (coating of steel structures, concrete blocks, columns contacting with the ground, steel and concrete engineering structures (including pipelines).

Description of the material
Hot-applied roofing mastic #41 TECHNONICOL is produced from polymer and mineral filler modified roofing bitumen. Due to its similar structure the mastic is completely compatible with the roofing and waterproofing materials produced by the TECHNONICOL Corporation. Its application ensures the creation of a reliable, complete roofing system.

Method of application
The mastic is warmed to a temperature of 160-180°C and is applied in a liquid state to the primer-coated foundation with a spreader, a paint brush, or by pouring and leveling across the surface.

Storage
Store in a dry place protected against sunlight at a temperature between –20°C and +30°C. Guaranteed storage period is 18 months.



Basic physical and mechanical properties

	MASTIC #41 TECHNONICOL (EVRICA)
Softening point, °C, not below	105
Needle penetration at 25°C, 0.1 mm, not more than	50
Adhesion to the foundation, MPa, not less than (at 20±5 °C)	
concrete	0.20
steel	0.25
Adhesion to the foundation, MPa, not less than (at -20±2 °C)	
concrete	0.80
steel	1.00
Adhesion between layers, MPa, not less than	
rolled material/rolled material	0.15
rolled material/concrete	0.15
Shear strength of glued bond, kN/m, not less than	4
Water absorption in 24 h, % by weight, not more than	1
Nominal strength, MPa, not less than	0.2
Elongation at break, %, not more than	1100

SEALANT #45 TECHNONICOL

TU 5775-052-72746455-2011

Butyl rubber sealant

- Speedy performance
- Painted with acrylic facade paint
- Easy application
- Durability



Application areas

Butyl rubber sealant #45 TECHNONICOL is designed for sealing exterior surfaces, joints and junctions of engineering elements in residential, public and industrial buildings and constructions. It protects the surfaces against moisture, decay and cracking.

Description of the material

Sealant #45 TECHNONICOL is a homogeneous viscous elastic butyl rubber based moving mass, containing fillers, target additives and an organic solvent. After hardening, the sealant transforms into an elastic, water-and-air-tight mass that is highly resistant to weather elements (solar radiation, ozone, and temperature extremes).

Method of application

Prior to applying, butyl rubber sealant #45 TECHNONICOL should be stirred thoroughly. Apply to the prepared surface using a spreader, at an ambient temperature between -20°C and +40°C. When applying at subzero temperatures, hold the sealant at room temperature for at least 24 hours before application. Surface coverage depends on the type of performed work.

Storage

Store in a dry place protected against sunlight, at a temperature between -20°C and +30°C. Guaranteed storage period is 18 months.

Safety measures

Avoid contact with skin and eyes. Do not use inside living premises and near naked flame sources.

Basic physical and mechanical properties

	SEALANT #45 TECHNONICOL
Density of working composition, kg/m	800÷1000
Appearance	Colour: gray, white
Tensile strength at break, MPa, not less than	0.2
Adhesion to concrete, MPa, not less than	0.2
Tensile break elongation, %, within	100
Mass fraction of dry residue, % , within	55±5
Drying time to "tack", min., not more than	60
Range of operable temperatures, °C	from -50 to 80

Range of Products:

white grey

2-COMPONENT SEALANT #2K

2-component polyurethane based sealant

- Wide temperature range
- Good adhesion to all building materials
- Painted with acrylic facade paint
- Highly resistant to weather elements

Application areas

2-element polyurethane based sealant TECHNONICOL 2K has the following application areas:

— sealing joints of vertical and angled engineering structures;
— sealing expansion joints with maximum deformation of ±25%;
— sealing cast in situ/prefab reinforced concrete structures.

Description of the material

The material is a two-element composition: Component A (white thicksotropic paste free from inclusions) and Component B (viscous transparent liquid). After the components A and B are mixed, polymerization of the sealant occurs. Curing speed increases with the rise of temperature. After curing, the sealant has excellent adhesion to basic building materials. Sustains a wide range of temperatures (-60 °C to +70°C). May be painted with acrylic facade paint.

Method of application

The basic mass (Component A) is supplied in a plastic bucket. The hardener (Component B) is also in the bucket, in a metal container. Components A and B are supplied in quantity required for mixing, that is, 6:1 by weight. Total mass of the package is 12 kg. As per SNiP 3.03.01-81.

Storage

Store in a dry place protected against sunlight, at a temperature from 5°C to +30°C. Guaranteed storage period is 18 months.



Basic physical and mechanical properties

	2-COMPONENT SEALANT #2K
Density, g/cm^3	Within 1.45÷0.0
Spreadable life at 23°C and relative air humidity 50%, h, within	5-9
Curing time (depending on weather conditions), h	24-48
Tensile strength at break along sample joints, MPa, not less than	0.25
Tensile break elongation (along sample joints), %, not less than	300
Yield resistance, mm	not less than 1

Range of Products:

white grey

Safety measures

Avoid substance exposure on the skin and into the eyes. If used in residential facilities complete solidification of the hermetic prior the exploitation is required. Using near open fire source is prohibited.

MASTIC TECHNONICOL

TU 5775-017-72746455-2008

Asphalt mastic

Durability



Application areas

Asphalt mastic has the following application areas:

— installation and repair of asphalt filled joint sealers in hydraulic engineering installations (HPP, PSPP, shipping locks, etc);
— as a binder in the production of cast asphalt flooring in industrial shops, cellars, warehouses and other constructions;
— waterproofing of clay pipe joints.

Description of the material

Hot-applied asphalt mastic is a multicomponent composition consisting of oil bitumen and filler.

Method of application

Used as per SNiP 12-04-2002. Before application the mastic is warmed up to 160-180 °C.

Storage

Store in a dry place, protected against sunlight, at a temperature from -20°C to +30°C.

Basic physical and mechanical properties

	ASPHALT MASTIC TECHNONICOL
Softening point (BAR), °C, not less than	75
Bulk density, g/cm^3	1.7-1.8

BITUMEN TECHNONICOL

TU 5772–009–72746455–2007

Building oil bitumen

Durability

Quality guaranteed



Application areas

Bitumen TECHNONICOL is used in waterproofing work in various construction sectors; one of the areas is its use for the adhesion of non-welded oxidized bitumen based roofing materials to foundation.

Description of the material

Construction and roofing bitumen is a standard building material used for waterproofing. Bitumens are produced by oxidation of residual products of straight-run oil distillation.

Method of application

Bitumen is warmed up in an asphalt heater to a liquid state and is applied as a liquid to the dust-free foundation using a spreader, a paint brush, or by pouring and leveling with special combs (spreading knives).

Storage

Store in a place protected against contamination and atmospheric precipitation.

Basic physical and mechanical properties

	BN 90/10	BNK 90/30
Softening point (BAR), °C, not less than	90-105	80-95
Needle penetration at 25°C, 0.1 mm	5-20	25-35
Flash temperature, °C, not less than	240	240
Solubility in toluene	90	90
%, not less than	90	90

Roofing and waterproofing materials

MBR MASTICS TECHNONICOL

Hot-applied rubber-bitumen MBR mastics

Durability

Quality guaranteed



Application areas

Hot-applied rubber-bitumen MBR mastics are designed for:

- insulation of underground steel pipelines and other constructions in order to protect them from soil corrosion;
- insulation of joints and cracks in roofings;
- installation of rolled roofing materials and vapour insulation of roofing systems;
- laying under tramway rails;
- waterproofing of engineering constructions.

Description of the material

Grade 65, 75 and 90 hot-applied rubber-bitumen MBR mastics are multicomponent compositions consisting of oil bitumen, crumb rubber and plasticizer.

Method of application

Application is as per GOST 15836-79 and SNiP 12-04-2001.The mastic is warmed up to 160-180 °C and applied in a liquid state to a foundation pre-coated with an asphalt primer using a spreading knife or a paint brush, or poured and leveled.

Storage

Store in a dry place protected against sunlight, at a temperature between –20°C and +30°C. Guaranteed storage period is 18 months.

Basic physical and mechanical properties

	MBR-65	MBR-75	MBR-90	MBR-100
Softening point (BAR), °C, not less than	65	75	90	100
Needle penetration at 25°C, 0.1 mm	40	30	20	15
Elongation at 25 °C, cm, not less than	4	4	3	2
Water absorption in 24 h, %, not more than	0.2	0.2	0.2	0.2
Operable temperature, °C, within	5 to -30	15 to -15	35 to -5	40 to -5

TAIKOR PRIMER 150

TU 2312-099-72746455-2016

Two-component epoxy primer (base coat)

Quality guaranteed

Easy application

Durability

Application areas

TAIKOR PRIMER 150 is used as a high-strength chemically resistant primer coating in systems of anti-corrosion protection of steel structures in enhanced corrosivity environment (categories C2...C5-M (ISO 12944)) and in protective coating systems of concrete structures, including transport infrastructure facilities. It is also used in the installation of thin-layer polymer flooring systems, including wear resistant quartz floors.

Description of the material

TAIKOR PRIMER 150 is a two-component epoxy based coating material. It is manufactured in two versions: summer and winter.

Method of application

TAIKOR PRIMER 150 is applied to steel foundations with preparation grade Sa 2½ as per ISO 8501-1-2014. Concrete surfaces should be cleaned mechanically from dirt and cement slurry and repaired. Application by airless spraying or manually (brushes, roller). If necessary, the material may be diluted with a special thinner TAIKOR Thinner 01. During the work foundation surface temperature should be 3 °C higher than dew point.

Storage

Store in a dry place protected against sunlight, in undamaged original packing, at a temperature between –20°C and +30°C. Guaranteed storage period is 24 months.

PREMIUM

Roofing and waterproofing materials



Basic physical and mechanical properties

	TAIKOR PRIMER 150
Foundation	steel, concrete
Density, at 20±2°C (after mixing), g/cm^3	1.3
Air temperature during application, °C	+5...+30 -10...+30 (TAIKOR Primer 150)
Relative air humidity, %, not more than	80
Mass fraction of nonvolatile matter,%	72–78
Relative viscosity at 20 °C by V3-246 type Viscometer with nozzle Ø 6 mm, s	40–70
Degree of grinding, mkm, not more than	80
Drying time to Level 3 at 20 °C, h, not more than	8
Spreadable life of composition after mixing the components at 20±2°C, hrs, not less than	6
A and B components ratio, parts, by mass	100:9.3 100:16 (TAIKOR Primer 150 winter)
Surface coverage per layer, kg/m^2	0.190–0.270
Thickness of one layer, mkm	100–140
Recommended number of layers	1
Curing time between layers, hrs, not less than	4
Time of full polymerization of coating, days	7
Appearance	Colour gray, mat
Adhesion to steel, points, not more than	1
Adhesion to concrete, MPa, not less than	2
Film impact strength, cm, not less than	40
Flexural resilience of film, mm, not more than	2
Film resistance to static effects of water at 20±2°C, h	24

TAIKOR PRIMER 210

STO 72746455-3.6.1-2015

Primer for concrete

Durability

Quality guaranteed

Deep penetration into surface

PREMIUM



Application areas

TAIKOR PRIMER 210 is used to provide adhesion of polymer waterproofing composition TAIKOR Elastic 300 to substrates (brickwork, concrete, plaster compression) and independently, as an impregnator for de-dusting and strengthening substrates.

Description of the material

A single-component deep penetration primer on the base of an organic pre-polymer.

Method of application

The composition is used as per TAIKOR System Instruction Manual. Prepare the surface, prepare the material for application, and apply the material, observing temperature, moisture and time parameters and controlling quality of application in course of work and after completion. Air temperature during application should be from +5 to +35°C.

Storage

Store in a dry place protected against sunlight, in undamaged original packing, at a temperature between +5°C and +35°C. Guaranteed storage period is 12 months. Temporary storage at lower temperatures, down to -20 °C, for no longer than two weeks, is admissible.
Storing polymer composition in opened and closed again container is not allowed.

Basic physical and mechanical properties

	TAIKOR PRIMER 210
Type of foundation	Concrete, brickwork and other substrates, wood
Density, at 20±2°C (after mixing), kg/l	0.97-0.99
Moisture content of foundation, %, not more than	4
Air temperature during application, °C.	from +5 to +35
Dynamic viscosity at 20±1°C, not more than	90-120
Curing time before applying the next coating, hrs, not less than	3
Decorative qualities	Light yellow, transparent colour

TAIKOR ELASTIC 300

STO 72746455-3.6.1-2015

Polymer composition for jointless elastic waterproofing

Jointless waterproofing

Easy application

Durability

Easy application on complicated geometry surfaces

PREMIUM



Application areas

TAIKOR ELASTIC 300 is used as elastic jointless waterproofing for roofs and internal and external waterproofing of various engineering constructions.

Description of the material

TAIKOR ELASTIC 300 is a single-component composition based on an organic pre-polymer.
When applied to the surface, it forms an elastic waterproofing film.

Method of application

The composition is used as per TAIKOR System Instruction Manual and technical regulations. Prepare the surface, prepare the material for application, and apply the material, observing temperature, moisture and time parameters and controlling quality of application in course of work and after completion. When applying at temperature from -10°C to 8°C, and when applying a thick layer (over 700 g/m^2 per layer), use of TAIKOR Polymerization Accelerator is mandatory.

Storage

Store in a dry place protected against sunlight, in undamaged original packing, at a temperature between +5°C and +35°C. Guaranteed storage period is 12 months. Temporary storage at lower temperatures, down to -20 °C, for no longer than two weeks, is admissible.
Storing polymer composition in opened and closed again container is not allowed.

Basic physical and mechanical properties

	TAIKOR ELASTIC 300
Type of foundation	Concrete, brickwork and other substrates, wood
Density, at 23±2°C (after mixing), kg/l	1.39-1.39
Moisture content of foundation, %, not more than	4
Mass fraction of nonvolatile matter,%	86-90
Tensile break elongation, %, at least	900
Surface coverage (depends on the type of foundation), kg/m^2	
Number of layers	2-3
Tensile break strength, MPa, not less than	5.5
Water tightness, atm, at least	5
Adhesion to substrates, MPa, at least	2
Curing time before applying the next coating, hrs	8-24
Decorative qualities	White, grey colour

Roofing and waterproofing materials

TAIKOR TOP 425

TU 2312-100-72746455-2016

Two-component UV-resistant polyurethane enamel

Durability

Resistance to aggressive environment

Resistance to UV-radiation

PREMIUM



Application areas

TAIKOR TOP 423 is used as finishing weather-resistant coating in composition with TAKOR Primer 150 in systems of anti-corrosion protection of steel structures operating in enhanced corrosivity environment (categories C2-C5-M (ISO 12944)). It is also used as finishing layer in protective coating systems of concrete structures, including transport infrastructure facilities, and in the installation of thin-layer paint coatings of flooring systems, including wear resistant quartz floors (parking areas, warehouses, production facilities, etc.).

Description of the material

TAIKOR TOP 425 is a two-component weather-resistant polyurethane enamel with high anticorrosion properties, good gloss and chemical resistance. The enamel is manufactured in two versions, summer and winter.

Method of application

The composition is used as per TAIKOR System technical regulations.

Storage

Store in a dry place protected against sunlight, in undamaged original packing, at a temperature between -20°C and +30°C. Guaranteed storage period is 24 months.

Basic physical and mechanical properties

	TAIKOR TOP 425
Mass fraction of nonvolatile matter, %, at least	59
Density, at 20±2°C (after mixing), g/cm^3, at least	1.3
Relative viscosity at 20 °C by V3-246 type Viscometer with nozzle Ø 4 mm, s, not less than	30
Degree of grinding, mkm, not more	40
Drying time to Level 3 at 20 °C, hrs, not more than	2
Spreadable life of composition after mixing the components at 23°C, hrs	6
A and B components ratio, parts, by mass	100:7
Surface coverage per layer, on metal, kg/m^2	0.170
Thickness of one layer, on metal, mkm, not less than	60
Surface coverage per layer, on concrete, kg/m^2	0.170-0.190
Thickness of one layer, on concrete, mkm, not less than	60–70
Recommended number of layers	
metal	1–2
concrete	2–3
Appearance	Colour according to RAL, gloss, semi-gloss, mat
Appearance	1
Adhesion to steel, points, not more than	2
Adhesion to concrete, MPa, not less than	50
Film impact strength, cm, not less than	1
Flexural resilience of film, mm, not more than	

TAIKOR TOP 470

TU 2312-101-72746455-2016

Universal urethane-alkyd primer/enamel

High speed of drying

Durability

Resistance to UV-radiation

Temperature range −30° +30°

PREMIUM



Application areas

TAIKOR TOP 470 is designed for the painting of steel structures, pipelines (including buried ones), bridges, railway cars, agricultural machinery, equipment, upper works of ships, etc.

Description of the material

TAIKOR TOP 470 is a single-component UV-resistant primer/enamel with high drying rate. It has high gloss, is weather resistant and detergent-and mineral oil-resistant.

Method of application

Prior to application, thoroughly stir primer/enamel until an even consistency is obtained. Apply the material using a brush, a roller, or by airless spraying. To obtain required viscosity in mechanical application, the material can be diluted with xylene in volume not exceeding 10% by mass. During the work foundation surface temperature should be 3 °C higher than dew point. Air temperature during application: from -30°C to +35°C.

Storage

Store in a dry place protected against sunlight, in undamaged original packing. Store in correspondence with GOST 9980.5. Guaranteed storage period is 12 months.

Basic physical and mechanical properties

	TAIKOR TOP 470
Type of foundation	Steel, concrete, wood
Density, at 20±2°C (after mixing), g/cm^3, not less than	1.3
Air temperature during application, °C	from -30 to 35
Surface coverage per layer, kg/m^2	0.280
Thickness of one layer, mkm,	80
Mass fraction of nonvolatile matter, %, not less than	57-63
Relative viscosity at 20 °C by V3-246 type Viscometer with nozzle Ø 4 mm, s, not less than	100-220
Degree of grinding, mkm, not more	40-70
Drying time to Level 3 at 20 °C, h, not more than	1
Appearance	Colour according to RAL
Adhesion to steel, points, not more than	1
Film impact strength, cm, not less than	50
Flexural resilience of film, mm, not more than	1

TAIKOR TOP 490

TU 2312-102-72746455-2016

Epoxy primer/enamel with high chemical resistance

Durability

Resistance to aggressive environment

PREMIUM



Application areas

Primer/enamel is designed for anticorrosion protection of inner surfaces of steel and concrete reservoirs containing petroleum products, household sewage waters and other aggressive media.

Description of the material

TAIKOR TOP 490 is a two-component epoxy primer/enamel which has high mechanical and chemical resistance.

Method of application

Prior to application, thoroughly stir components A and B separately. After that, mix components A and B in proportion 100:27.5 and thoroughly stir until an even consistency is obtained.

Steel surface should have preparation grade Sa 2 as per ISO 8501-1-2014. Concrete surfaces should be cleaned mechanically from dirt and cement slurry and repaired.

Application method: by airless spraying or, on smaller surfaces, manually (brushes, roller). If necessary, the material may be diluted with a special thinner TAIKOR Thinner 03. During the work foundation surface temperature should be 3 °C higher than dew point.

Storage

Store in a dry place protected against sunlight, in undamaged original packing, at a temperature between –40°C and +35°C.

Guaranteed storage period is 24 months.

Basic physical and mechanical properties

	TAIKOR TOP 490
Foundation	steel, concrete
Density, at 20±2°C (after mixing), g/cm^3	1.5
Air temperature during application, °C	+5...+35
Relative air humidity, %, not more than	80
Mass fraction of nonvolatile matter,%, not less than	92
Degree of grinding, mkm, not more than	50
Drying time to Level 3 at (20±2)°C, h, not more than	24
Drying time to Level 3 at 120 °C, h, not more than	1
Spreadable life of composition after mixing the components at 23°C, hrs, not less than	1.5
A and B components ratio, parts, by mass	100:27.5*
Surface coverage per layer, kg/m^2	0.520
Thickness of one layer, mkm	310
Recommended number of layers	1 (for steel) 2 (for concrete)
Time of full polymerization of coating at 20°C, 24 hr periods, not less than	7
Appearance	green, colour tone not defined
Adhesion to steel, points, not more than	1
Adhesion to steel, MPa, not less than	2.5
Adhesion to concrete, MPa, not less than	2
Film impact strength, cm, not less than	30
Flexural resilience of film, mm, not more than	1.5
Taber abrasion resistance, mg, not more than	160
Operation temperature, °C	-60...+90 short-term up to 200 (up to 6 hours)

Thermal insulating materials

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2.2 Rock wool based thermal insulating materials **85**

2.3 Extruded polystyrene foam based thermal insulating materials **107**

2

PIR TECHNONICOL

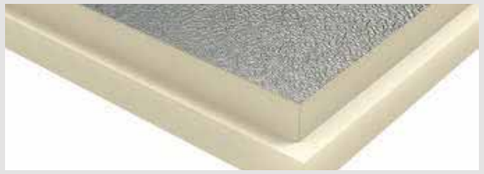
STO 72746455-3.8.1-2014 EN 13165

Thermal insulating slabs

- High resistivity to dynamic load
- Installation round the year
- High fire protection characteristics
- 50 YEARS — Operation properties preserved for 50 years
- Low weight



glass fiber mat laminated slabs



foil laminated slabs

Application areas

PIR TECHNONICOL heat insulating slabs are used in civil and industrial construction at the installation of large area flat roofing systems on profiled and concrete foundations. Also, PIR TECHNONICOL slabs may be used for the thermal insulation of floors (including load-carrying floors), facades, pedestals and pitched roofs.

Description of the material

Thermal insulation PIR TECHNONICOL is a modern heat insulating material on the basis of rigid polyisocyanurate foam. PIR slabs have a closed honeycomb structure (volume of gas-filled cells not exceeding 95%). For this reason the material has unique thermal conductivity, high resistance to mechanical loads and minimal water resistant properties. A whole range of PIR TECHNONICOL slabs is produced. Foil laminated slabs are used in flat roofing systems with polymer membrane waterproofing. Besides, fiber mat laminated PIR slabs are produced for use in adhesive systems and in roofing systems with waterproofing layer welded up directly on thermal insulation. If pitched roofing system is required, tapered insulation from PIR SLOPE 1.7 and 3.4% gradient slabs is used.

Storage

Store the slabs indoor or under a canopy, protected against precipitation and sunlight.

Basic physical and mechanical properties

	SHM/SHM (FIBER MAT LAMINATED)	F/F (FOIL LAMINATED)
Density, kg/m^3	30÷35	30÷35
Thermal conductivity, W/m/K, at:		
25°C	0.023	0.021
Operating conditions A	0.025	0.022
Operating conditions B	0.026	0.023
Flammability group	G2	G1
Compression breaking strength at 10% deformation, kPa	120	120
Water absorption at continuous diving, %, not more than	1.0	1.0
Application temperature, °C	from 65 to 110	from 65 to 110

TECHNOLIGHT

TU 5762-010-74182181-2012

Rockwool based thermal insulation for non loaded structures

- High energy economy capacity
- Stable volume and shape



Description of the material

TECHNOLIGHT slabs are nonflammable, waterproofing, heat- and sound insulating products made of basalt rockwool with a low-phenol binder.
The slabs are used in engineering structures of residential buildings and industrial facilities where thermal insulation is not taking external load (attic, attic floors, floors with heater packing between floor beams, frame partitions).
The material may be also used as the first (internal) heat-insulation layer in the facade systems with an air gap between a two-layer thermal insulation.

Method of application

The slabs are laid in nonloaded structures without additional fixation. Recommended distance between frame studs (floor beams) should be not more than 580-590 mm in the clear.

Storage

Store the slabs indoors. Storage under a canopy protecting the slabs from atmospheric precipitation is permitted. Stored slabs should be placed in containers or in piles on pallets or linings. Piling height during storage should not exceed 3 m.

Basic physical and mechanical properties

	TECHNOLIGHT EXTRA	TECHNOLIGHT OPTIMA
Density, kg/m^3	34 (±4)	38 (±4)
Compressibility, %, not more than	20	20
Flammability grade	NG	NG
Thermal conductivity, W*m*C, not more		
λ_{25}	0.038	0.038
λ_A	0.039	0.040
λ_B	0.041	0.041
Vapour permeability, mg/(m*h*Pa), not less than	0.3	0.3
Mass humidity, %, not more than	0.5	0.5
Water absorption by volume, %, not more than	1.5	1.5
Organic substance content, %, not more than	2.5	2.5
Length, mm	1200	1200
Width, mm	600	600
Thickness (with a 10 mm increment), mm	50–200	50–200

TECHNOBLOCK

TU 5762-010-74182181-2012

Rockwool based thermal insulation for sandwich systems and frame walls

High energy saving ability

Resistance to microorganisms and rodents



Description of the material

TECHNOLIGHT are nonflammable, waterproofing, heat- and sound insulating slabs made of rockwool on the basis of rocks of basalt group with a low-phenol binder.
The material is used in various types of sandwich systems and for siding clad frame walls. It may be also used as the first (internal) heat-insulation layer in the facade systems with an air gap between a two-layer thermal insulation.

Method of application

The slabs in sandwich systems are laid between load bearing wall and facing brickwork. Fastening is made with special fiberglass flexible ties. Installation recommendations may be found in Instruction Manual “How to insulate the house with TECHNONICOL rockwool heat insulation”. In framed construction the material is installed without additional fixing. Recommended distance between frame studs (floor beams) should be not more than 580-590 mm in the clear.

Storage

Store the slabs indoors. Storage under a canopy protecting the slabs from atmospheric precipitation is permitted. Stored slabs should be placed in containers or in piles on pallets or gobbs. Piling height during storage should not exceed 3 m.

Basic physical and mechanical properties

	TECHNOBLOCK OPTIMA	TECHNOBLOCK PROF
Density, kg/m^3	55 (±5)	65 (±5)
Compressibility, %, not more than	8	8
Flammability grade	NG	NG
Thermal conductivity, W*m*C, not more than		
λ_{25}	0.036	0.035
λ_A	0.041	0.040
λ_B	0.044	0.043
Vapour permeability, mg/(m*h*Pa), not less than	0.3	0.3
Mass humidity, %, not more than	0.5	0.5
Water absorption by volume, %, not more than	1.5	1.5
Organic substance content, %, not more than	2.5	2.5
Length, mm	1200	1200
Width, mm	600	600
Thickness (with a 10 mm increment), mm	50–200	50–200

TECHNOVENT N

A NEW PRODUCT

TU 5762-017-74182181-2015

Rockwool based thermal insulation for the first layer of ventilated facade

No shrinkage

Fire safety

High vapour permeability

Description of the material

TECHNOVENT N is a nonflammable, waterproofing, heat- and sound- insulating slab made of rockwool on the basis of rocks of basalt group with a low-phenol binder.
The material is used as the first internal layer in two-layer thermal insulation of ventilated facades.

Method of application

The slabs in sandwich systems are installed according to the “Method Statement. Installation of hinged air gap façade system of internal thermal insulation of buildings”. Slabs are fastened to the wall with disc-shaped dowels on the basis of 2 pcs. per slab.

Storage

Store the slabs indoors. Storage under a canopy protecting the slabs from atmospheric precipitation is permitted. Stored slabs should be placed in containers or in piles on pallets or gobbs. Piling height during storage should not exceed 3 m.



Thermal insulating materials

Basic physical and mechanical properties

	TECHNOVENT N	TECHNOVENT N PROF
Density, kg/m^3	36 (±4)	45 (±5)
Compressibility, %, not more than	20	10
Flammability grade	NG	NG
Thermal conductivity, W*m*C, not more than		
λ_{25}	0.038	0.037
λ_A	0.039	0.038
λ_B	0.041	0.040
Vapour permeability, mg/(m*h*Pa), not less than	0.3	0.3
Mass humidity, %, not more than	0.5	0.5
Water absorption by volume, %, not more than	1.5	1.5
Organic substance content, %, not more than	2.5	2.5
Air permeability, 10^{-6} m^3/m*s*Pa	90	80
Length, mm	1200	1200
Width, mm	600	600
Thickness (with a 10 mm increment)	50–200	50–200

TECHNOVENT EXTRA

TU 5762-017-74182181-2015

Rockwool based thermal insulation for the suspended ventilated facade

High energy saving ability

Low weight

Fire safety



Description of the material

TECHNOVENT EXTRA is a nonflammable, waterproofing, heat- and sound- insulating slab made of rockwool on the basis of rocks of basalt group with a low-phenol binder. TECHNOVENT EXTRA slabs are designed for use in engineering structures of residential buildings and industrial facilities as heat-and sound-insulation layer in ventilated facades (single-layer insulation, or external layer in a two-layer thermal insulation).

Method of application

The slabs are installed according to the “Method Statement. Installation of suspended air gap façade system of internal thermal insulation of buildings”. Slabs are fastened to the wall with disc-shaped dowels on the basis of 2 pcs. per slab.

Storage

Store the slabs indoors. Storage under a canopy protecting the slabs from atmospheric precipitation is permitted. Stored slabs should be placed in containers or in piles on pallets or gobbs. Piling height during storage should not exceed 3 m.

Basic physical and mechanical properties

	TECHNOVENT EXTRA
Density, kg/m^3	75 (±7)
Compressibility, %, not more than	3
Flammability grade	NG
Peeling strength between layers perpendicular to face surfaces, kPa, not less than	5
Thermal conductivity, W*m*C, not more than	
λ_{25}	0.036
λ_A	0.037
λ_B	0.038
Vapour permeability, mg/(m*h*Pa), not less than	0.3
Mass humidity, %, not more than	0.5
Water absorption by volume, %, not more than	1.5
Organic substance content, %, not more than	4
Length, mm	1200
Width, mm	600
Thickness (with a 10 mm increment)	40–200

TECHNOVENT

TU 5762-010-74182181-2012

Rockwool based thermal insulation for the suspended ventilated facade

High energy saving ability

Sound absorbing ability



Thermal insulating materials

Description of the material

TECHNOVENT is a nonflammable, waterproofing, heat- and sound- insulating slab made of rockwool on the basis of rocks of basalt group with a low-phenol binder. TECHNOVENT slabs are designed for use in engineering structures of residential buildings and industrial facilities as heat-and sound-insulation layer in ventilated facades (single-layer insulation or external insulation in a two-layer thermal insulation).

Method of application

The slabs are installed according to the “Method Statement. Installation of suspended air gap façade system of internal thermal insulation of buildings”. Slabs are fastened to the wall with disc-shaped dowels on the basis of 2 pcs. per slab.

Storage

Store the slabs indoors. Storage under a canopy protecting the slabs from atmospheric precipitation is permitted. Stored slabs should be placed in containers or in piles on pallets or linings. Piling height during storage should not exceed 3 m.

Basic physical and mechanical properties

	TECHNOVENT STANDARD	TECHNOVENT OPTIMA	TECHNOVENT PROF
Density, kg/m^3	80 (±8)	90 (±9)	100 (±10)
Peeling strength between layers, kPa, not less than	3	5	8
Flammability grade	NG	NG	NG
Thermal conductivity, W*m*C, not more than			
λ_{25}	0.036	0.036	0.036
λ_A	0.038	0.038	0.038
λ_B	0.039	0.040	0.040
Compressibility, %, not more than	2	2	2
Compression strength at 10% deformation, kPa, not less than	10	12	15
Vapour permeability, mg/(m*h*Pa), not less than	0.3	0.3	0.3
Mass humidity, %, not more than	0.5	0.5	0.5
Water absorption by volume, %, not more than	1.5	1.5	1.5
Organic substance content, %, not more than	3.0	3.0	3.0
Length, mm	1200	1200	1200
Width, mm	600	600	600
Thickness (with a 10 mm increment)	50–200	50–200	50–200

TECHNOFAS L

TU 5762-010-74182181-2012

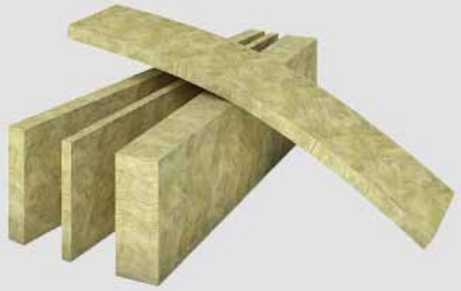
Rockwool based thermal insulation for a curved surface thin-layer stucco facade

High layer peeling strength

Easy installation on curved surfaces

Vapour permeability

High elasticity



Description of the material

TECHNOFAS L strips are cut from nonflammable, waterproofing, heat- and sound-insulating slabs made of rockwool on the basis of rocks of basalt group bonded with a synthetic binder.

Method of application

Strips are installed according to the “Method Statement. Installation of a thin-layer plaster system of facade thermal insulation”. Strips are glued to the wall with special glue for thermal insulation and are fastened additionally to the wall with disc-shaped wide head dowels.

Storage

Store the slabs indoors. Storage under a canopy protecting the slabs from atmospheric precipitation is permitted. Stored slabs should be placed in containers or in piles on pallets or gobbs. Piling height during storage should not exceed 3 m.

Basic physical and mechanical properties

	TECHNOFAS L
Density, kg/m^3	90 (±10)
Tensile strength perpendicular to faces, kPa, not less than	80
Flammability grade	NG
Thermal conductivity, W*m*C, not more than	
λ_{25}	0.041
λ_A	0.042
λ_B	0.044
Compression strength at 10% deformation, kPa, not less than	50
Vapour permeability, mg/(m*h*Pa), not less than	0.3
Mass humidity, %, not more than	0.5
Water absorption by volume, %, not more than	1.0
Organic substance content, %, not more than	4.0

TECHNOFAS EXTRA

TU 5762-017-74182181-2015

Rockwool based thermal insulation for a thick-layer stucco facade

High layer peeling strength

Alkali resistant



Description of the material

TECHNOFAS EXTRA is a nonflammable, waterproofing, heat- and sound- insulating slab made of rockwool on the basis of rocks of basalt group.

TECHNOFAS EXTRA slabs are designed for use in civil and industrial construction as heat-and sound-insulation layer in external insulation systems for walls with thick-layer protective and decorative stucco on a steel reinforcing mesh.

Method of application

In course of installation slabs are pinned on blind fasteners and clamped down with washers or plates.

Storage

Store the slabs indoors. Storage under a canopy protecting the slabs from atmospheric precipitation is permitted. Stored slabs should be placed in containers or in piles on pallets or gobbs. Piling height during storage should not exceed 3 m.

Basic physical and mechanical properties

	TECHNOFAS EXTRA
Density, kg/m^3	90 (±10)
Interlaminar strength, not less than, kPa,	5
Flammability grade	NG
Thermal conductivity, W*m*C, not more than	
λ_{25}	0.037
λ_A	0.039
λ_B	0.041
Compression strength at 10% deformation, kPa, not less than	15
Vapour permeability, mg/(m*h*Pa), not less than	0.3
Mass humidity, %, not more than	0.5
Water absorption by volume, %, not more than	1.0
Organic substance content, %, not more than	3.5
Length, mm	1200
Width, mm	600
Thickness (with a 10 mm increment)	50-200

TECHNOFAS DECOR
NEW PRODUCT

TU 5762-017-74182181-2015

Rockwool based thermal insulation for a thin-layer stucco facade

- Lower cost
- Alkali resistant
- Vapour permeability



Description of the material
TECHNOFAS DECOR products are nonflammable, waterproofing, heat- and sound-insulating slabs made of rockwool on the basis of rocks of basalt group bonded with a low phenol binder.
Application area: external walls with a thin protective/ decorative layer of plaster. Height of the facade should not exceed 20 meters. The material may also be used for heat-and sound insulation of inner walls in glassed-in semi-recessed and protruded balconies and portions of walls adjacent to stair flights.

Method of application
Slabs are installed according to the “Method Statement. Installation of a thin-layer plaster system of facade thermal insulation”. Slabs are glued to the wall with special glue for thermal insulation and are fastened additionally to the wall with disc-shaped dowels.

Storage
Store the slabs indoors. Storage under a canopy protecting the slabs from atmospheric precipitation is permitted. Stored slabs should be placed in containers or in piles on pallets or gobbs. Piling height during storage should not exceed 3 m.

Basic physical and mechanical properties

	TECHNOFAS DECOR
Density, kg/m^3	110 (±10)
Tensile strength perpendicular to faces, kPa, not less than,	12
Flammability grade	NG
Thermal conductivity, W*m*C, not more than	
λ_{25}	0.038
λ_A	0.039
λ_B	0.041
Compression strength at 10% deformation, kPa, not less than	25
Vapour permeability, mg/(m*h*Pa), not less than	0.3
Mass humidity, %, not more than	0.5
Water absorption by volume, %, not more than	1.5
Organic substance content, %, not more than	4.5
Length, mm	1200
Width, mm	600
Thickness (with a 10 mm increment)	50-200

TECHNOFAS OPTIMA

TU 5762-017-74182181-2015

Rockwool based thermal insulation for a thin-layer stucco facade

- High layer peeling strength
- Low weight



Description of the material
TECHNOFAS OPTIMA are nonflammable, waterproofing, heat- and sound-insulating slabs made of rockwool on the basis of rocks of basalt group bonded with a low phenol binder.
TECHNOFAS OPTIMA slabs are designed for use in civil and industrial construction as heat-and sound-insulation layer in external insulation systems for walls with a protective and decorative thin-layer stucco without limitation of facade height.

Method of application
Slabs are installed according to the “Method Statement. Installation of a thin-layer plaster system of facade thermal insulation”. Slabs are glued to the wall with special glue for thermal insulation and are fastened additionally to the wall with disc-shaped dowels.

Storage
Store the slabs indoors. Storage under a canopy protecting the slabs from atmospheric precipitation is permitted. Stored slabs should be placed in containers or in piles on pallets or linings. Piling height during storage should not exceed 3 m.

Basic physical and mechanical properties

	TECHNOFAS OPTIMA
Density, kg/m^3	120 (±10)
Interlaminar strength, not less than, kPa,	15
Flammability grade	NG
Thermal conductivity, W*m*C, not more than	
λ_{25}	0.038
λ_A	0.040
λ_B	0.041
Compression strength at 10% deformation, kPa, not less than	40
Vapour permeability, mg/(m*h*Pa), not less than	0.3
Mass humidity, %, not more than	0.5
Water absorption by volume, %, not more than	1.5
Organic substance content, %, not more than	4.5
Length, mm	1200
Width, mm	600
Thickness (with a 10 mm increment)	50-200

TECHNOFAS

TU 5762-010-74182181-2012

Rockwool based thermal insulation for a thin-layer stucco facade

High layer peeling strength

Alkali resistant

Vapour permeability



Description of the material

TECHNOFAS and TECHNOFAS EFFECT are nonflammable, waterproofing, heat- and sound-insulating slabs made of rockwool on the basis of rocks of basalt group bonded with a low phenol binder.
TECHNOFAS and TECHNOFAS EFFECT slabs are designed for use in civil and industrial construction as heat-and sound-insulation layer in external insulation systems for walls with a protective and decorative thin-layer plaster coating.

Method of application

Slabs are installed according to the “Method Statement. Installation of a thin-layer plaster system of facade thermal insulation”. Slabs are glued to the wall with special glue for thermal insulation and are fastened additionally to the wall with disc-shaped dowels.

Storage

Store the slabs indoors. Storage under a canopy protecting the slabs from atmospheric precipitation is permitted. Stored slabs should be placed in containers or in piles on pallets or linings. Piling height during storage should not exceed 3 m.

Basic physical and mechanical properties

	TECHNOFAS EFFECT	TECHNOFAS
Density, kg/m^3	131 (±6)	145 (±14)
Interlaminar strength, not less than, kPa,	15	15
Flammability grade	NG	NG
Thermal conductivity, W*m*C, not more than		
λ_{25}	0.038	0.038
λ_A	0.040	0.040
λ_B	0.042	0.042
Compression strength at 10% deformation, kPa, not less than	45	45
Vapour permeability, mg/(m*h*Pa), not less than	0.3	0.3
Mass humidity, %, not more than	0.5	0.5
Water absorption by volume, %, not more than	1.0	1.0
Organic substance content, %, not more than	4.5	4.5
Length, mm	1200	1200
Width, mm	600	600
Thickness (with a 10 mm increment)	50-200	50-200

TECHNOSANDWICH

TU 5762-010-74182181-2012

Rockwool based thermal insulation slabs for the production of sandwich panels

High precision of geometric dimensions



Description of the material

TECHNOSANDWICH slabs are nonflammable, waterproofing, heat- and sound-insulating products made of rockwool on the basis of rocks of basalt group bonded with a low phenol binder.
TECHNOSANDWICH CONCRETE slabs are designed for use as heat- and sound-insulating layer in three-layer concrete and reinforced concrete wall panels.
TECHNOSANDWICH C slabs are designed for use in three-layer metal-plated wall sandwich panels.
TECHNOSANDWICH K slabs are designed for use in three-layer metal-plated roofing sandwich panels.

Method of application

Slabs are used for factory assembly of sandwich panels.

Storage

Store the slabs indoors. Storage under a canopy protecting the slabs from atmospheric precipitation is permitted. Stored slabs should be placed in containers or in piles on pallets or gobbs. Piling height during storage should not exceed 3 m.

Basic physical and mechanical properties

	TECHNO-SANDWICH CONCRETE	TECHNO-SANDWICH C	TECHNO-SANDWICH K
Density, kg/m^3	100 (±10)	115 (±15)	145 (±15)
Flammability grade	NG	NG	NG
Compression strength at 10% deformation, kPa, not less than	20	-	-
Peeling strength between layers, kPa, not less than	-	100*	100*
Ultimate compressive strength, kPa	-	60*	100*
Shear strength, kPa, not less than	-	50*	75*
Thermal conductivity, W*m*C, not more than			
λ_{25}	0.037	0.041	0.042
λ_A	0.039	–	–
λ_B	0.041	–	–
Vapour permeability, mg/(m*h*Pa), not less than	0.3	0.3	0.3
Mass humidity, %, not more than	0.5	0.5	0.5
Water absorption by volume, %, not more than	1.5	1.5	1.5
Organic substance content, %, not more than	4.5	4.5	4.5
Length, mm	1200, 2400	1200, 2400	1200, 2400
Width, mm	600, 627, 800, 1200	600, 627, 800, 1200	600, 627, 800, 1200
Thickness, mm	102, 122	102, 122	102, 122

* Slabs are cut into strips; samples are turned at 90° around the long axis.

TECHNOROOF 45

TU 5762-010-74182181-2012

Rockwool based thermal insulation for flat roofing

- High strength
- High heat economy capacity



Description of the material

TECHNOROOF 45 slabs are nonflammable, waterproofing, heat- and sound-insulating products made of rockwool on the basis of rocks of basalt group bonded with a low phenol binder.

TECHNOROOF 45 slabs are used as the main thermal insulation layer in reinforced concrete or profiled sheet roofing with all types of cladding, including systems without the installation of protective screeds.

Field of application: civil and industrial engineering newly constructed and reconstructed buildings and structures of various purpose.

Method of application

Slabs are installed on a reinforced concrete of profiled sheeting foundation and fixed with telescopic fastening systems.

Storage

Store the slabs indoors. Storage under a canopy protecting the slabs from atmospheric precipitation is permitted. Stored slabs should be placed in containers or in piles on pallets or gobbss. Piling height during storage should not exceed 3 m.

Basic physical and mechanical properties

	TECHNOROOF 45
Density, kg/m^3	140 (±14)
Compression strength at 10% deformation, kPa, not less than	45
Concentrated load, N, not less than	550
Flammability grade	NG
Thermal conductivity, W*m*C, not more than	
λ_{25}	0.038
λ_A	0.041
λ_B	0.042
Interlaminar strength, kPa, not less than	12
Vapour permeability, mg/(m*h*Pa), not less than	0.3
Mass humidity, %, not more than	0.5
Water absorption by volume, %, not more than	1.5
Organic substance content, %, not more than	4.5
Length, mm	1200
Width, mm	600
Thickness (with a 10 mm increment), mm	50-150

TECHNOROOF N

TU 5762-017-74182181-2015

Rockwool based thermal insulation for lower layer of flat roofing

- Simple installation
- Low weight
- High heat saving capacity
- Fire safety



Description of the material

TECHNOROOF N EXTRA, TECHNOROOF N OPTIMA and TECHNOROOF N PROF are nonflammable, waterproofing, heat-and sound-insulating slabs made of rockwool on the basis of rocks of basalt group bonded with a low phenol binder.

The slabs are designed for use as the lower layer of thermal insulation in reinforced concrete or profiled sheet roofing. It is recommended to use the slabs in combination with TECHNOROOF B slabs.

Method of application

Slabs are installed on a reinforced concrete of profiled sheeting foundation and fixed with telescopic fastening systems, together with upper layer of thermal insulation.

Storage

Store the slabs indoors. Sort the slabs by type and size and store separately. Storage under a canopy protecting the slabs from atmospheric precipitation is permitted. Stored slabs should be placed in containers or in piles on pallets or gobbs. Piling height during storage should not exceed 3 m.

Basic physical and mechanical properties

	TECHNO-ROOF N EXTRA	TECHNO-ROOF N OPTIMA	TECHNO-ROOF N PROF
Density, kg/m^3	100 (±10)	110 (±10)	120 (±10)
Compression strength at 10% deformation, kPa, not less than	30	35	40
Concentrated load, N, not less than	400	450	550
Flammability grade	NG	NG	NG
Thermal conductivity, W*m*C, not more than			
λ_{25}	0.038	0.038	0.038
λ_A	0.039	0.039	0.040
λ_B	0.041	0.041	0.041
Vapour permeability, mg/(m*h*Pa), not less than	0.3	0.3	0.3
Mass humidity, %, not more than	0.5	0.5	0.5
Water absorption by volume, %, not more than	1.5	1.5	1.5
Organic substance content, %, not more than	4.5	4.5	4.5
Length, mm	1200	1200	1200
Width, mm	600	600	600
Thickness (with a 10 mm increment), mm	50–200	50–200	50–200

TECHNOROOF N

TU 5762-010-74182181-2012

Rockwool based thermal insulation for lower layer of flat roofing

Simple installation

High heat saving capacity



Description of the material

TECHNOROOF N slabs are nonflammable, waterproofing, heat- and sound-insulating products made of rockwool on the basis of rocks of basalt group bonded with a low phenol binder.

TECHNOROOF N slabs are designed for use in civil and industrial construction as a thermal insulation layer in newly constructed and reconstructed buildings and structures of various purposes. The slabs are used as the lower layer of thermal insulation in reinforced concrete or profiled sheet roofing. It is recommended to use the slabs in combination with TECHNOROOF B slabs.

Method of application

Slabs are installed on a reinforced concrete of profiled sheeting foundation and fixed with telescopic fastening systems, together with upper layer of thermal insulation.

Storage

Store the slabs indoors. Storage under a canopy protecting the slabs from atmospheric precipitation is permitted. Stored slabs should be placed in containers or in piles on pallets or gobbs. Piling height during storage should not exceed 3 m.

Basic physical and mechanical properties

	TECHNOROOF N 30	TECHNOROOF N 35
Density, kg/m^3	115 (±15)	120 (±15)
Compression strength at 10% deformation, kPa, not less than	30	35
Concentrated load, N, not less than	400	450
Flammability grade	NG	NG
Thermal conductivity, W*m*C, not more than		
λ_{25}	0.038	0.037
λ_A	0.041	0.040
λ_B	0.042	0.041
Vapour permeability, mg/(m*h*Pa), not less than	0.3	0.3
Mass humidity, %, not more than	0.5	0.5
Water absorption by volume, %, not more than	1.5	1.5
Organic substance content, %, not more than	4.5	4.5
Length, mm	1200	1200
Width, mm	600	600
Thickness (with a 10 mm increment), mm	50–200	50–200

TECHNOROOF PROF

TU 5762-017-74182181-2015

Rockwool based thermal insulation for flat roofing

High compression strength



Description of the material

TECHNOROOF PROF and TECHNOROOF PROF C slabs are nonflammable, waterproofing, heat- and sound-insulating products made of rockwool on the basis of rocks of basalt group bonded with a low phenol binder.

Letter c in designation means that one side of the material has glass-fiber mat coating.

The slabs are used as the main or upper thermal insulation layer in a two-layer thermal insulation of roofing in reinforced concrete or profiled sheet covering with all types of cladding, including systems without protective screeds.

Field of application: civil and industrial construction, newly constructed and reconstructed buildings and structures of various purpose.

Method of application

Slabs are installed on a reinforced concrete of profiled sheeting foundation or directly on the bottom layer consisting of TECHNOROOF N slabs, and fixed with telescopic fastening systems.

Storage

Store the slabs indoors. Sort the slabs by type and size and store separately. Storage under a canopy protecting the slabs from atmospheric precipitation is permitted. Stored slabs should be placed in containers or in piles on pallets or gobbs. Piling height during storage should not exceed 3 m.

Basic physical and mechanical properties

	TECHNOROOF PROF	TECHNOROOF PROF c
Density, kg/m^3	160 (±15)	160 (±15)
Compression strength at 10% deformation, kPa, not less than	60	60
Concentrated load, N, not less than	600	800
Flammability grade	NG	NG
Thermal conductivity, W*m*C, not more than		
λ_{25}	0.039	0.039
λ_A	0.040	0.040
λ_B	0.042	0.042
Vapour permeability, mg/(m*h*Pa), not less than	0.3	0.3
Mass humidity, %, not more than	0.5	0.5
Water absorption by volume, %, not more than	1.5	1.5
Organic substance content, %, not more than	4.5	4.5
Length, mm	1200	1200
Width, mm	600	600
Thickness (with a 10 mm increment), mm	40–150	50]

TECHNOROOF V

TU 5762-010-74182181-2012

Rockwool based thermal insulation for flat roofing

High concentrated load

High compression strength



Description of the material

TECHNOROOF V slabs are nonflammable, waterproofing, heat- and sound-insulating products made of rockwool on the basis of rocks of basalt group bonded with a low phenol binder.
TECHNOROOF V slabs are designed for use as the upper thermal insulation layer in reinforced concrete or profiled sheet covering with rolled material and mastic cladding, including systems without protective screeds.
It is recommended to use the slabs in combination with TECHNOROOF N and/or TECHNOROOF slabs.
The slabs are used in civil and industrial construction as insulation layer in newly constructed and reconstructed buildings and structures of various purposes.

Method of application

Slabs are installed on a reinforced concrete or profiled sheeting foundation or directly on TECHNOROOF N slabs of the bottom layer and fixed with telescopic fastening systems.

Storage

Store the slabs indoors. Sort the slabs by type and size and store separately. Storage under a canopy protecting the slabs from atmospheric precipitation is permitted. Stored slabs should be placed in containers or in piles on pallets or gobbs. Piling height during storage should not exceed 3 m.

Basic physical and mechanical properties

	TECHNOROOF V 60	TECHNOROOF V 70
Density, kg/m^3	180 (±15)	190 (±15)
Compression strength at 10% deformation, kPa, not less than	60	70
Flammability grade	NG	NG
Thermal conductivity, W*m*C, not more than		
λ_{25}	0.038	0.040
λ_A	0.041	0.043
λ_B	0.043	0.045
Interlaminar strength, kPa, not less than	15	15
Vapour permeability, mg/(m*h*Pa), not less than	0.3	0.3
Mass humidity, %, not more than	0.5	0.5
Water absorption by volume, %, not more than	1.5	1.5
Organic substance content, %, not more than	4.5	4.5
Length, mm	1200	1200
Width, mm	600	600
Thickness, mm	40.50	40, 50

TECHNOROOF V EXTRA

TU 5762-017-74182181-2015

Rockwool based thermal insulation for flat roofing

Deformation resistant

Low weight

Fire safety



Description of the material

TECHNOROOF V EXTRA and TECHNOROOF V EXTRA c slabs are nonflammable, waterproofing, heat-and sound-insulating products made of rockwool on the basis of basalt group of rock bonded with a low phenol binder.
Letter c in designation means that one side of the material has glass-fiber mat coating.
The slabs are used in civil and industrial construction as thermal insulation layer for newly constructed and reconstructed buildings and structures of various purposes. TECHNOROOF V EXTRA slabs are used as the external layer in two-and three-layer roofing systems, as the external layer in the repair of old roofing and as the bottom layer in multilayer roofing systems bearing high load on profiled steel sheet covering.

Method of application

Slabs are installed directly on the bottom layer consisting of TECHNOROOF N slabs and fixed with telescopic fastening systems.

Storage

Store the slabs indoors. Sort the slabs by type and size and store separately. Storage under a canopy protecting the slabs from atmospheric precipitation is permitted. Stored slabs should be placed in containers or in piles on pallets or linings. Piling height during storage should not exceed 3 m.

Basic physical and mechanical properties

	TECHNOROOF V EXTRA	TECHNOROOF V EXTRA c
Density, kg/m^3	170 (±15)	170 (±15)
Compression strength at 10% deformation, kPa, not less than	65	65
Concentrated load, N, not less than	650	900
Flammability grade	NG	NG
Thermal conductivity, W*m*C, not more than		
λ_{25}	0.040	0.040
λ_A	0.041	0.041
λ_B	0.043	0.043
Vapour permeability, mg/(m*h*Pa), not less than	0.3	0.3
Mass humidity, %, not more than	0.5	0.5
Water absorption by volume, %, not more than	1.5	1.5
Organic substance content, %, not more than	4.5	4.5
Length, mm	1200	1200
Width, mm	600	600
Thickness, mm	30–50	40, 50

TECHNOROOF V OPTIMA

A NEW PRODUCT

TU 5762-017-74182181-2015

Rockwool based thermal insulation for flat roofing

High concentrated load

Fire safety

Enhanced mechanical strength



Description of the material

TECHNOROOF V OPTIMA and TECHNOROOF V OPRIMA c slabs are nonflammable, waterproofing, heat-and sound-insulating products made of rockwool on the basis of basalt group of rock. Letter c in designation means that one side of the material has glass-fiber mat coating.

TECHNOROOF V OPTIMA slabs are used as the external layer in two-or three-layer roofing systems, as the external layer in the repair of old roofing, and as the bottom layer in multilayer roofing systems with high load on profiled steel sheet covering. It is recommended to use the slabs in combination with TECHNOROOF N or TECHNOROOF slabs.

Method of application

Slabs are installed on reinforced concrete and profiled sheeting foundation or directly on the TECHNOROOF N or TECHNOROOF slabs of the bottom layer. The slabs are fixed with telescopic fastening system when installing on profiled sheet covering or glued to the foundation with hot asphalt mastic when installed on reinforced concrete foundation.

Storage

Store the slabs indoors. Sort the slabs by type and size and store separately. Storage under a canopy protecting the slabs from atmospheric precipitation is permitted. Stored slabs should be placed in containers or in piles on pallets or linings. Piling height during storage should not exceed 3 m.

Basic physical and mechanical properties

	TECHNOROOF V OPTIMA	TECHNOROOF V OPTIMA c
Density, kg/m^3	180 (±15)	180 (±15)
Compression strength at 10% deformation, kPa, not less than	70	70
Flammability grade	NG	NG
Concentrated load, N, not less than	700	1000
Thermal conductivity, W*m*C, not more than		
λ_{25}	0.041	0.041
λ_A	0.041	0.041
λ_B	0.043	0.043
Vapour permeability, mg/(m*h*Pa), not less than	0.3	0.3
Mass humidity, %, not more than	0.5	0.5
Water absorption by volume, %, not more than	1.5	1.5
Organic substance content, %, not more than	4.5	4.5

TECHNOROOF V PROF

A NEW PRODUCT

TU 5762-017-74182181-2015

Rockwool based thermal insulation for flat roofing

High concentrated load

Fire safety

Enhanced mechanical strength



Description of the material

TECHNOROOF V PROF and TECHNOROOF V PROF c slabs are nonflammable, waterproofing, heat-and sound-insulating rockwool based products. Letter c in designation means that one side of the material has glass-fiber mat coating.

The slabs are used as the external layer in two-layer thermal insulation of flat roofing systems. It is recommended to use the slabs in combination with TECHNOROOF N or TECHNOROOF slabs.

Method of application

Slabs are installed on reinforced concrete and profiled sheeting foundation or directly on the bottom layer TECHNOROOF N or TECHNOROOF slabs. The slabs are fixed with telescopic fastening system when installing on profiled sheet covering or glued to the foundation with hot asphalt mastic when installed on reinforced concrete foundation.

Storage

Store the slabs indoors. Sort the slabs by type and size and store separately. Storage under a canopy protecting the slabs from atmospheric precipitation is permitted. Stored slabs should be placed in containers or in piles on pallets or gobbs. Piling height during storage should not exceed 3 m.

Basic physical and mechanical properties

	TECHNOROOF V PROF	TECHNOROOF V PROF c
Density, kg/m^3	190 (±15)	190 (±15)
Compression strength at 10% deformation, kPa, not less than	80	80
Flammability grade	NG	NG
Concentrated load, N, not less than	800	1100
Thermal conductivity, W*m*C, not more than		
λ_{25}	0.041	0.041
λ_A	0.042	0.042
λ_B	0.044	0.044
Vapour permeability, mg/(m*h*Pa), not less than	0.3	0.3
Mass humidity, %, not more than	0.5	0.5
Water absorption by volume, %, not more than	1.5	1.5
Organic substance content, %, not more than	4.5	4.5
Length, mm	1200	1200
Width, mm	600	600
Thickness, mm	30, 40, 50	40, 50

TECHNOROOF N VENT

TU 5762-010-74182181-2012

Rockwool based thermal insulation for ventilated flat roofing



Description of the material

TECHNOROOF N VENT slabs are nonflammable, waterproofing, heat-and sound-insulating products made of rockwool on the basis of basalt group of rock bonded with a low phenol binder.

TECHNOROOF N VENT slabs are designed for thermal insulation of flat roofing with formation of a system of ventilated ducts. It is recommended to use the slabs in combination with TECHNOROOF B slabs.

Method of application

Slabs are installed on reinforced concrete or profiled sheeting foundation and fixed with telescopic fastening systems, together with the top layer of thermal insulation.

Storage

Store the slabs indoors. Storage under a canopy protecting the slabs from atmospheric precipitation is permitted. Stored slabs should be placed in containers or in piles on pallets or gobbs. Piling height during storage should not exceed 3 m.

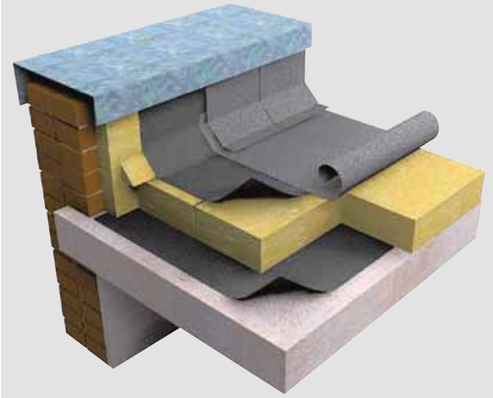
Basic physical and mechanical properties

	TECHNOROOF N30 VENT	TECHNOROOF N35 VENT
Density, kg/m^3	115 (±15)	120 (±15)
Compression strength at 10% deformation, kPa, not less than	30	35
Flammability grade	NG	NG
Thermal conductivity, W*m*C, not more than		
λ_{25}	0.038	0.037
λ_A	0.041	0.040
λ_B	0.042	0.041
Concentrated load, N, not less than	400	450
Vapour permeability, mg/(m*h*Pa), not less than	0.3	0.3
Mass humidity, %, not more than	0.5	0.5
Water absorption by volume, %, not more than	1.5	1.5
Organic substance content, %, not more than	4.5	4.5
Length (with 10 mm increment), mm	1200	1200
Width (with 10 mm increment), mm	600	600
Thickness (with 10 mm increment), mm	50–200	50–200
Width of vents, mm	20	20
Height of vents, mm	20	20
Distance between vents, mm	150–200	150–200

TECHNOROOF GALTEL

TU 5762-010-74182181-2012

Rockwool based thermal insulation fillet ensuring smooth transition of waterproofing material on flat roofing



Description of the material

TECHNOROOF 45 GALTEL and TECHNOROOF V60 GALTEL products are nonflammable, waterproofing, heat-and sound-insulating triangular profile fillets cut from rockwool slabs made on the basis of basalt group of rock bonded with a low phenol binder.

The fillets ensure a smooth transition of waterproofing material from horizontal plane of the roofing to vertical plane of the parapet.

Method of application

Slabs are installed directly on the slabs of lower thermal insulating layer, in places where horizontal plane of the roofing adjoins vertical plane of the parapet structures.

Storage

Store the slabs indoors. Storage under a canopy protecting the slabs from atmospheric precipitation is permitted. Stored slabs should be placed in containers or in piles on pallets or gobbs. Piling height during storage should not exceed 3 m.

Basic physical and mechanical properties

	TECHNOROOF 45 GALTEL	TECHNOROOF V60 GALTEL
Density, kg/m^3	140 (±14)	180 (±15)
Compression strength at 10% deformation, kPa, not less than	45	60
Flammability grade	NG	NG
Thermal conductivity, W*m*C, not more than		
λ_{25}	0.038	0.038
λ_A	0.041	0.041
λ_B	0.042	0.043
Vapour permeability, mg/(m*h*Pa), not less than	0.3	0.3
Mass humidity, %, not more than	0.5	0.5
Water absorption by volume, %, not more than	1.5	1.5
Organic substance content, %, not more than	4.5	4.5
Length, mm	1200	1200
Cutting angle	4	45
Leg, mm	100	100
Cross-section area, m^2	0.005	0.005
Volume of one piece, m^2	0.006	0.006

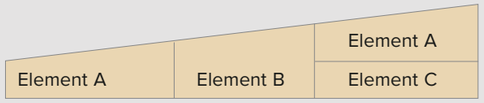
TECHNOROOF N30 KLIN

TU 5762-010-74182181-2012

Rockwool based thermal insulation ensuring smooth transition of waterproofing material on flat roofing

No “wet” installation processes





Description of the material

TECHNOROOF N KLIN products are nonflammable, waterproofing, heat-and sound-insulating slabs with pre-fabricated 1.7% and 4.2% gradient, produced from rockwool on the basis of basalt group of rock, bonded with a low phenol binder.

The slabs are designed to create roofing gradient of 1.7% and 4.2%, facilitating rainwater evacuation to rainwater pipes. In a double-layer thermal insulation system the slabs are laid on the first (bottom) layer of insulation material.

Method of application

Slabs are installed on the bottom thermal insulation slabs in correspondence with the laying scheme. Their place in the insulation system is between the top and the bottom layers. Slabs are fixed using telescopic fastening systems, together with the main layer of thermal insulation.

Storage

Store the slabs indoors. Storage under a canopy or without it is permitted if transportation pallet with wedges is packed in polyethylene film (in the form of a bag) protecting the wedges from atmospheric precipitation.

Basic physical and mechanical properties

	TECHNOROOF N30 KLIN (1.7%)	TECHNOROOF N30 KLIN (4.2%)
Density, kg/m^3	115 (±15)	115 (±15)
Compression strength at 10% deformation, kPa, not less than	30	30
Flammability grade	NG	NG
Thermal conductivity, W*m*C, not more than		
λ_{25}	0.038	0.038
λ_A	0.041	0.041
λ_B	0.042	0.042
Mass humidity, %, not more than	0.5	0.5
Water absorption by volume, %, not more than	1.5	1.5
Organic substance content, %, not more than	4.5	4.5
Length, mm	1200	1200
Width, mm	1200	600
Gradient, %	1.7	4.2
Thickness (min/max), mm		
Element A	30 / 50	30 / 55
Element B	50 / 70	55 / 80
Element C	40 / 40	50 / 50

XPS TECHNONICOL CARBON PROF

STO 72746455-3.3.1-2012

Extruded polystyrene foam based thermal insulating material

High heat economy capacity

Low water absorption

Durability

Stable dimensions

High strength



Description of the material

XPS TECHNONICOL CARBON PROF is a thermal insulating material from extruded polystyrene foam with evenly distributed closed cells.

It has high mechanical strength characteristics and the best heat conductivity factor in XPS TECJNONICOL line of products.

XPS TECHNONICOL CARBON PROF is used in the construction of flat roofs for industrial facilities and public buildings, residential houses, foundations of any complexity, and load bearing structures of roofing and floors on grade.

Professional oriented line of products includes special materials intended to create a gradient on flat roofing: XPS TECHNONICOL CARBON PROF SLOPE.

Storage

Store XPS TECHNONICOL CARBON PROF slabs in a dry, closed warehouse, stacked horizontally in at least 1 meter from heating appliances. Storage under a canopy protecting the slabs from atmospheric precipitation is permitted if the slabs are installed on pallets or gobbs.

Basic physical and mechanical properties

	CARBON PROF
Compression strength at 10% deformation, kPa, not less than	
≤40 mm	250
50 mm	270
60 mm	300
80-120 mm	370
Bending resistance, kPa, not less than	
40 mm	200
60-120 mm	250
Thermal conductivity at (25±5)° C, W/(m*K), no more than	
≤40 mm	0.029
50-60 mm	0.029
80-120 m	0.030
Thermal conductivity in operational circumstances "A" and "B", W/(m*K), no more than	0.032
Water absorption by volume, %, not more than	0.13
Vapour permeability, mg/(m*h*Pa), not less than	0.014
Flammability grade	G4/G3
Combustibility group	V3
Smoke generating capacity/toxicity	D3/T2
Operational temperature, ° C, within	-70 to +75
Geometric parameters	
Thickness, mm, within	20 – 120
Length, mm, within	1000 – 2400***
Width, mm, within	500 – 650***

* panels of other dimensions can be made by agreement with the customer

XPS TECHNONICOL CARBON PROF SLOPE

STO 72746455-3.3.1-2012

Extruded polystyrene foam based thermal insulating material

- High heat economy capacity
- Moisture resistant
- High strength
- Stable dimensions
- Simple installation



Description of the material

TECHNONICOL CARBON PROF SLOPE is a set of panels with a gradient of 1.7% (panels A and B), 3.4% (panels J and K), and 8.3% (panel M), cut from extruded polystyrene slabs with a thickness of 40 and 80 mm.
TECHNONICOL CARBON PROF SLOPE panels have the following scope of application:

— creating gradient on the roof, increasing the gradient or changing the direction of rainwater flow;
— creating roof gradient in a valley gutter to water intake funnels;
— creating roof gradient (valleys) at ventilation shafts and roof lights;
— creating additional gradient to remove water flow from parapet (counter-slope).

Storage

Store XPS TECHNONICOL CARBON SLOPE slabs in a dry, closed warehouse, stacked horizontally in at least 1 meter from heating appliances. Stacking height should not exceed 5 m. Passages should be provided between stacks not less than 1.5 m wide. Storage under a canopy protecting XPS TECHNONICOL CARBON SLOPE slabs from atmospheric precipitation is permitted. If stored under a canopy, the slabs should be installed on pallets or gobbs.

Basic physical and mechanical properties

	ELEMENT A (1.7%)	ELEMENT B (1.7%)	ELEMENT J (1.7%)	ELEMENT K (3.4%)	ELEMENT M (8.3%)	CARBON PROF (SPACER PLATE)
Compression strength at 10% deformation, kPa, not less than	250					
Bending resistance, kPa, not less than	250					
Thermal conductivity at (25±5)° C, W/(m*K), no more than	0.029					
Thermal conductivity in operational circumstances "A" and "B", W/(m*K), no more than	0.032					
Water absorption by volume, %, not more than	0.13					
Flammability grade**	G4/G3					
Combustibility group	V3					
Smoke generating capacity/ toxicity	D3/T2					
Operational temperature, ° C, within	-70 to +75					
Geometric parameters						
Thickness, mm, within	10 to 30	30 to 50	10 to 30	30 to 50	10 to 60	40.50
Length, mm, within	1200	1200	1200	1200	1200	1180
Width, mm, within	600	600	600	600	600	580

XPS TECHNONICOL CARBON SOLID

STO 72746455-3.3.1-2012

Extruded polystyrene foam based thermal insulating material

- High heat economy capacity
- Low water absorption
- Durability
- Stable dimensions
- High strength



Description of the material

XPS TECHNONICOL CARBON SOLID is a thermal insulating material made of extruded polystyrene foam with evenly distributed closed cells.
It has high mechanical strength characteristics and the best heat conductivity factor in XPS TECHNONICOL line of products.
XPS TECHNONICOL CARBON SOLID does not absorb water, does not swell or contract, is chemically stable and is not biodegrading.
Due to its high strength, it allows creating a foundation which is even and rigid at the same time, thus significantly increasing service life of the entire waterproofing system.
XPS TECHNONICOL CARBON SOLID is used in the construction of flat roofs for retail shopping centers, residential quarters, foundations of any complexity, and load bearing structures of roofing and floors on grade.
XPS TECHNONICOL CARBON SOLID 500 modification is used for the thermal insulation of floors in refrigerated storerooms, artificial ice arenas, walking roofs, and motor- and railways.

Storage

Store XPS TECHNONICOL CARBON SOLID slabs in a dry, closed warehouse, stacked horizontally in at least 1 meter from heating appliances. Storage under a canopy protecting the slabs from atmospheric precipitation and sunlight is permitted if the slabs are installed on pallets or gobbs.

Basic physical and mechanical properties

	CARBON SOLID
Compression strength at 10% deformation, kPa, not less than	
≤40 mm	400
50-60 mm	500
80-120 mm	500
Bending resistance, mPa, not less than	
40 – 60 mm	400
60 – 120 mm	300
Thermal conductivity at (25±5) °C, W/(m*K), no more than	
≤ 40 mm	0.031
50-60 mm	0.030
60-120 mm	0.032
Thermal conductivity in operational circumstances "A" and "B", W/(m*K), no more than	0.034
Water absorption by volume, %, not more than	0.13
Vapour permeability, mg/(m*h*Pa), not less than	0.014
Flammability grade**	G4/G3
Combustibility group	V3
Smoke generating capacity/toxicity	D3/T2
Operational temperature, ° C, within	-70 to +75
Geometric parameters	
Thickness, mm, within	20 – 120
Length, mm, within	1000 – 2400
Width, mm, within	580 – 600

XPS TECHNONICOL CARBON ECO FAS

STO 72746455-3.3.1-2012

Extruded polystyrene foam based thermal insulating material for stucco facades and pedestals

- Improved plaster adhesion
- High heat economy capacity
- Low water absorption
- Durability
- Simple installation
- Ecology friendly



Description of the material

XPS TECHNONICOL CARBON ECO FAS slabs are thermal insulating products made of extruded polystyrene foam with a special milled finish surface, fine grooves and enhanced adhesion. The material is designed for thermal insulation in stucco facades, pedestals and other building structures with enhanced requirements to the adhesion of thermal insulating slabs to foundation.

Storage

Store XPS TECHNONICOL CARBON ECO FAS slabs in a dry, closed warehouse, stacked horizontally in at least 1 meter from heating appliances. Method of stacking should ensure stability of slabs during storage and unstacking. Stacking height should not exceed 5 m. Passages should be provided between stacks not less than 1.5 m wide. Storage under a canopy protecting XPS TECHNONICOL CARBON ECO FAS slabs from atmospheric precipitation is permitted. If stored under a canopy, the slabs should be installed on pallets or gobbs.

Basic physical and mechanical properties

	XPS TECHNONICOL CARBON ECO FAS
Compression strength at 10% deformation, kPa, not less than	
40 mm	100
50 – 60 mm	200
80 – 120 mm	250
Bending resistance, kPa, not less than	
40 – 60 mm	150
80 – 120 mm	250
Thermal conductivity at (25±5)° C, W/(m*K), no more than	
≤40 mm	0.030
50 – 60 mm	0.030
80 – 120 mm	0.032
Thermal conductivity in operational circumstances «A» and «B», W/(m*K), no more than	0.032
Water absorption by volume, %, not more than	0.13
Vapour permeability, mg/(m*h*Pa), not less than	0.014
Flammability grade	G4/G3
Combustibility group	V3
Smoke generating capacity/toxicity	D3/T2
Operational temperature, ° C, within	-70 to +75
Geometric parameters	
Thickness, mm, within	20 – 120
Length, mm, within	1000 – 2400***
Width, mm, within	580 – 600***

* L-edge prevents the appearance of “thermal bridges” and improves bonding between slabs. Slabs with other dimensions may be manufactured by agreement with customer.

XPS TECHNONICOL CARBON ECO DRAIN

STO 72746455-3.3.1-2012

Wall drainage and additional thermal insulation of foundations, a component of water evacuation and micro ventilation system in flat roofing.

- Reliable thermal insulation
- High strength
- Biologically stable
- Simple installation
- Low water absorption

Description of the material

XPS TECHNONICOL CARBON ECO DRAIN is a thermal insulation material with special drainage grooves for the organization of drainage in foundation and flat roofing structure. The material comprises several functions:

— reliable heat insulation;
— precipitation and ground water drainage;
— micro ventilation in flat roofing.

Due to its water repellent qualities, TECHNONICOL CARBON ECO DRAIN facilitates drainage of engineering constructions.

The material is exceptionally resistant to biological and chemical impact.

Facilitating excessive moisture removal, TECHNONICOL CARBON ECO DRAIN prevents emergence and spread of insects and mold.

Storage

Store XPS TECHNONICOL CARBON ECO DRAIN slabs in a dry, closed warehouse, stacked horizontally in at least 1 meter from heating appliances. Storage under a canopy protecting the slabs from atmospheric precipitation is permitted. If stored under a canopy, the slabs should be installed on pallets or gobbs.



Basic physical and mechanical properties

	XPS TECHNONICOL CARBON ECO DRAIN
Compression strength at 10% deformation, kPa, not less than	
40 mm	200
50 – 60 mm	230
80 – 100 mm	250
120 mm	350
Bending resistance, kPa, not less than	
40 – 60 mm	200
80 – 120 mm	250
Thermal conductivity at (25±5)° C, W/(m*K), no more than	
≤40 mm	0.030
50 – 60 mm	0.032
80 – 120 mm	0.033
Thermal conductivity in operational circumstances "A" and "B", W/(m*K), no more than	0.034
Water absorption by volume, %, not more than	0.13
Vapour permeability, mg/(m*h*Pa), not less than	0.014
Flammability grade	G4/G3
Combustibility group	V3
Smoke generating capacity/toxicity	D3/T2
Operational temperature, ° C, within	-70 to +75
Geometric parameters	
Thickness, mm, within	20 – 120
Length, mm, within	1000 – 2400***
Width, mm, within	580 – 600***

* L-edge prevents the appearance of “thermal bridges” and improves bonding between slabs. Slabs with other dimensions may be manufactured by agreement with customer.

XPS TECHNONICOL CARBON SAND

STO 72746455-3.3.1-2012

Extruded polystyrene foam based thermal insulating material for sandwich panels

- High strength
- High heat economy
- Moisture resistant
- Durability
- Impact noise protection



Description of the material

TECHNONICOL CARBON SAND products are thermal insulating slabs made of extruded polystyrene foam, specially designed for use as a core layer in thermo insulating sandwich panels. The material has high water resistance, excellent heat insulation and vapour permeability.

The product can be easily cut and machined and has optimal dimensions. The manufacturer has established special dimensional tolerance for this line of products. Owing to additives and special structure of the material, no translucent effect has been observed when cutting the panels on wire foam cutters; glue consumption is minimal when producing sandwich panels.

Storage

Store XPS TECHNONICOL CARBON SAND slabs under a canopy protecting them from atmospheric precipitation and sunlight. When stored under a canopy, the slabs should be laid on pallets, gobbs or wooden bars.

Storage of XPS TECHNONICOL CARBON SAND slabs in the open air is permitted in special packing protecting them from atmospheric effects.

Basic physical and mechanical properties

	XPS TECHNONICOL CARBON SAND
Compression strength at 10% deformation, kPa, not less than	
40 mm	100
50 – 60 mm	200
80 – 120 mm	250
Bending resistance, kPa, not less than	
40 – 60 mm	150
80 – 120 mm	250
Thermal conductivity at (25±5)° C, W/(m*K), no more than	
40 mm	0.030
50 – 60 mm	0.030
80 – 120 mm	0.032
Thermal conductivity in operational circumstances «A» and «B», W/(m*K), no more than	0.034
Water absorption by volume, %, not more than	0.13
Vapour permeability, mg/(m*h*Pa), not less than	0.014
Flammability grade**	G4/G3
Combustibility group	V3
Operational temperature, ° C, within	-70 to +75
Geometric parameters	
Thickness, mm, within	20 – 120
Length, mm, within	1000 – 2400*
Width, mm, within	580 – 600*

Sound insulating materials

3.1 Rolled sound insulating materials **114**

3.2 Rockwool based sound insulating materials **116**

3

TECHNOELAST ACOUSTIC SUPER

STO 72746455-3.1.7-2014

Indoor sound insulation and waterproofing

Water tightness guarantee

Service life

Easy installation

Impact noise protection



Description of the material

Technoelast ACOUSTIC SUPER is a no-base soundproofing material with a self-adhesive lateral overlapping. The material is produced by bonding a metalized polyester film and sound-insulating glass fiber mat with a bitumen binder. Self-adhesive lateral overlapping is additionally protected with a siliconized film. Metalized film used in the material is highly puncture resistant and prevents moistening the soundproofing layer during the installation of sand/cement screed. The material has a high degree of impact noise protection. Technoelast ACOUSTIC SUPER presents an effective solution for a comprehensive problem of sound insulation and waterproofing of premises. It is most often employed in «floating» floor designs.

Method of application

Lay Technoelast ACOUSTIC SUPER freely, with sound-insulating layer placed against the foundation. The material is applied to the walls at the height of the finish. Install the sheets in an overlapping fashion and weld with an industrial hot air fan. Material application is according to the «Manual for the Procedure of Inter-Floor Sound Insulation and Waterproofing».

Storage

Store vertically, in a place protected from direct sunlight.

Basic physical and mechanical properties

	TECHNOELAST ACOUSTIC SUPER
Mass of 1 m² (±0.25 kg)	2.2
Tensile breaking load, N, not less than	
glass fiber mat	300 / –
Bend point on R=25 mm beam, °C, not more than	–15
Heat endurance, °C, not less than	85
Dynamic modulus of elasticity at load of 2 kPa, MPa, not more than	0.15
Impact noise reduction index, ΔLn, dB, not less than	27
Type of protective covering	
Top	metalized film
Bottom	soundproof layer
Length/width, m	10x1

TECHNOELAST ACOUSTIC C

STO 72746455-3.1.7-2014

Indoor sound insulation. Protection against impact noise.

Impact noise protection

Easy installation



Description of the material

Technoelast ACOUSTIC C is a soundproofing material for inter-floor insulation. The material prevents the propagation of impact noise transmitted via bearing elements of the building. It is used in «floating» floor designs effectively insulating the room against impact noise. Technoelast ACOUSTIC C may be used in all climatic regions (as per SniP 23-01-99*).

Method of application

Lay Technoelast ACOUSTIC SUPER freely, with sound-insulating layer placed against the foundation. The material is applied to the walls at the height of the finish. The sheets are installed butt-to-butt and joints are duct-taped. Material application is according to the «Manual for the Procedure of Inter-Floor Sound Insulation and Waterproofing».

Storage

Store vertically, in a place protected from direct sunlight.

Basic physical and mechanical properties

	TECHNOELAST ACOUSTIC C
Mass of 1 m² (±0.25 kg)	0.7
Tensile breaking load, N, not less than	
no base	—
Dynamic modulus of elasticity at load of 2 kPa, MPa, not more than	0.35
Impact noise reduction index, ΔLn, dB, not less than	23
Type of protective covering	
Top	metalized film
Bottom	soundproof layer
Length/width, m	10x1

TECHNOACOUSTIC

TU 5762-010-74182181-2012

Rockwool based soundproofing material. Airborne noise protection for non bearing structures.

Impact noise protection

Easy installation



Description of the material

TECHNOACOUSTIC slabs are nonflammable, waterproofing, sound-insulating products made of rockwool on the basis of basalt group of rock. High sound absorption qualities are obtained due to specially oriented fibers of the material.

Physical and mechanical properties of the product ensure its stable functioning in vertical structures.

TECHNOACOUSTIC slabs are used as soundproofing material in framed partitions and suspended ceilings and in interfloor insulation provided insulation material is not bearing any load.

Method of application

The material is laid in non bearing structures without additional fixation. Recommended space between partition studs (joists) is not more than 580-590 mm in the clear.

Storage

Store the slabs indoors.

Storage under a canopy protecting the slabs against atmospheric precipitation is permitted. The slabs should be installed on pallets or gobbs. Stack height should not exceed 3 m.

Basic physical and mechanical properties

	TECHNOACOUSTIC
Density, kg/m^3	42 (±4)
Sound absorption class at total thickness of insulation layer	2.5
50 mm	2 1 2 (L M H)
100 mm	2 1 1 (L M H)
150 mm	2 1 1 (L M H)
250 mm	1 1 1 (L M H)
Modulus of compression, %, not more than	10
Flammability grade	NG
Thermal conductivity, W*m*C, not more than	
λ_{25}	0.037
λ_A	0.039
λ_B	0.040
Vapour permeability, mg/(m*h*Pa), not less than	0.3
Mass humidity, %, not more than	0.5
Water absorption by volume, %, not more than	1.5
Organic substance content, %, not more than	2.5
Length, mm	1200
Width, mm	600
Thickness (with a 10 mm increment)	50, 100

TECHNOFLOOR STANDARD

TU 5762-010-74182181-2012

Rockwool based soundproofing material. Impact noise protection for floor preparation under the screed

High strength

Impact noise protection



Description of the material

TECHNOFLOOR STANDARD slabs are nonflammable, waterproofing, sound-insulating products made of rockwool on the basis of basalt group of rock bonded with a low phenol binder.

TECHNOFLOOR STANDARD slabs have the following field of application:

— civil and industrial construction;
— heat- and sound insulation between “floating” floor preparation and the screed.

Method of application

The slabs are laid on a prepared foundation. Gypsum plasterboards or sand/cement screed are installed above the slabs.

Storage

Store the slabs indoors.

Storage under a canopy protecting the slabs against atmospheric precipitation is permitted. The slabs should be installed on pallets or gobbs. Stack height should not exceed 3 m.

Basic physical and mechanical properties

	TECHNOFLOOR STANDARD
Density, kg/m^3	110 (±10)
Compression strength at 10% deformation, kPa, not less than	25
Flammability grade	NG
Thermal conductivity, W*m*C, not more than	
λ_{25}	0.037
λ_A	0.041
λ_B	0.044
Vapour permeability, mg/(m*h*Pa), not less than	0.3
Mass humidity, %, not more than	0.5
Water absorption by volume, %, not more than	1.5
Organic substance content, %, not more than	4.5
Length, mm	1200
Width, mm	600
Thickness (with a 10 mm increment)	30–50
Sound absorption class as per GOST 23499-79 at total thickness of insulation layer	
30 mm	3 1 2 (L M H)
50 mm	2 1 2 (L M H)

TECHNOFLOOR PROF

TU 5762-010-74182181-2012

Rockwool based soundproofing material. Impact noise protection for floor preparation under the screed

Impact noise protection

High strength parameters

High precision of geometric dimensions



Description of the material

TECHNOFLOOR PROF slabs are nonflammable, waterproofing, sound-insulating products made of rockwool on the basis of basalt group of rock bonded with a low phenol binder.

TECHNOFLOOR PROF slabs are designed for heat and sound insulation of floors bearing enhanced normative load, including floating floors, heated floors and floor preparation under the screed intended for production, sports and storage facilities.

Method of application

The slabs are laid on the foundation with spacing of joints, without additional fixing.

Storage

Store the slabs indoors.

Storage under a canopy protecting the slabs against atmospheric precipitation is permitted. The slabs should be installed on pallets or gobbs. Stack height should not exceed 3 m.

Basic physical and mechanical properties

	TECHNOFLOOR PROF
Density, kg/m^3	170 (±15)
Compression strength at 10% deformation, kPa, not less than	50
Flammability grade	NG
Thermal conductivity, W*m*C, not more than	
λ_{25}	0.040
λ_A	0.044
λ_B	0.047
Vapour permeability, mg/(m*h*Pa), not less than	0.3
Mass humidity, %, not more than	0.5
Water absorption by volume, %, not more than	1.5
Organic substance content, %, not more than	4.5
Length, mm	1200
Width, m	600
Thickness (with a 10 mm increment)	40–50

Technical Insulation and Fire Protection

4.1 Materials for Technical Insulation **120**

4.2 Materials for Fire Protection **125**

4

WIRED MAT TECHNO

TU 5762-006-74182181-2014 amend. 1

Heat-, sound- and fire protection of pipelines, equipment, tanks and air ducts

- Technical insulation
- High fire-prevention properties
- +660° Resistance to high temperatures
- Moisture resistance

Intended Use of Material

TECHNO Wired Mat shall be used as heat-, sound- and fire insulation for air ducts, as well as insulation of process equipment, steam lines, gas ducts, and electrical filters. Also it can be used for insulation of conical, cylindrical and planar surfaces, and ventilation ducts.
The temperature of insulated surfaces can be up to +660°C. The product is certified as a fireproof covering for air ducts.

Description of the material

TECHNO Wired Mat is a nonflammable, heat- and sound insulating wired mat made of basalt rock stone wool. The galvanized steel screen which stiffens insulation and eases installation is sewn to a mat with steel wire. It can be also manufactured with one-side foil facing, reinforced and unreinforced.

Storage

The mats shall be stored packed and stacked on pallets or in containers (cages) on a dry even surface and be separated by brands and sizes. During the entire period of storage, the material shall be protected against atmospheric precipitation.



Basic physical and mechanical properties

	TECHNO 50 WIRED MAT	TECHNO 80 WIRED MAT	TECHNO 100 WIRED MAT
Density, kg/m^3	45–55	72–88	90–110
Flammability, degree	NG*	NG*	NG*
Thermal conductivity, W/m*°C, not more than			
λ_{25}	0.036	0.035	0.037
λ_{125}	0.055	0.046	0.045
λ_{300}	0.114	0.086	0.079
Compressibility, %, not more than	40	30	25
Elasticity, %, no less than	90	90	90
Length, mm	2400, 4800	2400, 4800	2400, 4800
Width, mm	1200	1200	1200
Thickness (in increments of 10mm), mm	30–100	30–100	30–100

* G1 —with reinforced aluminum foil covering

LAMELLA MAT TECHNO

TU 5762-006-74182181-2014 amend. 1

Heat- and vapor insulation of air ducts, ventilation equipment, tanks and pipelines

- Technical insulation
- Dimensional stability
- Vapor resistance
- Moisture resistance

Intended Use of Material

Heat- and vapor insulation of air ducts, ventilating equipment, tanks, and pipelines of more than 230 mm diameter, as well as flat surfaces. The mats can be used when the temperatures of insulated surfaces are up to +250°C.

Description of the material

TECHNO Lamella mat is a weak-flammable, heat- and sound insulating mat formed of stone wool bars (lamellae) glued to reinforced aluminum foil. The product has enhanced compression strength, in comparison with usual mats, and smaller deformation in installation. The mat of standard version is covered with reinforced aluminum foil.

Storage

The mats shall be stored packed and stacked on pallets or in containers (cages) on a dry even surface and be separated by brands and sizes. During the entire period of storage, the material shall be protected against atmospheric precipitation.



Basic physical and mechanical properties

	TECHNO 35 LAMELLA MAT	TECHNO 50 LAMELLA MAT
Density, kg/m^3	32–38	45–55
Flammability, degree	G1	G1
Thermal conductivity, W/m*°C, not more than		
λ_{25}	0.041	0.040
λ_{125}	0.061	0.060
Compressibility, %, not more	15	10
Elasticity, %, no less than	—	—
Length, mm	2600, 2800, 3000, 3400, 4000, 5000, 6000, 8000	2600, 2800, 3000, 3400, 4000, 5000, 6000, 8000
Width, mm	1200	1200
Thickness (in increments of 10mm), mm	30–100	30–100

MAT TECHNO

TU 5762-006-74182181-2014 amend. 1

Heat- and sound insulation of pipelines, equipment, tanks and air ducts

- Technical insulation
- Moisture resistance
- High fire-prevention properties
- High vapor permeability

Intended Use of Material

Mat TECHNO is meant for heat insulation of air ducts, main pipelines, heat systems, gas ducts, electrical filters, tanks, boilers, process and power equipment, vertical and horizontal flat surfaces at the sites of various industry facilities (except food industry facilities), as well as in civil construction. The material shall be applied when the temperature of insulated surfaces is up to +400°C.

Description of the material

Mat TECHNO is nonflammable, heat- and sound insulating mat made of basalt rock wool and low-phenolic binder with addition of water-repellent agents. The material can be manufactured with reinforced aluminum foil facing or glass cloth on one side.

Storage

The mats shall be stored packed and stacked on pallets or in containers (cages) on a dry even surface and be separated by brands and sizes. During the entire period of storage, the material shall be protected against atmospheric precipitation.



Basic physical and mechanical properties

	MAT TECHNO 40
Density, kg/m^3	35-45
Flammability, degree	NG*
Thermal conductivity, W/m*°C, not more	
λ_{25}	0.037
λ_{125}	0.055
λ_{300}	0.115
Mass humidity, % not more than	0.5
Compressibility, %, not more than	40
Elasticity, %, no less than	90
Length, mm	3500, 4000, 4500
Width, mm	1200
Thickness (in increments of 10mm), mm	50–100

* G1 —with reinforced aluminum foil covering

PLATE TECHNO T

TU 5762-004-74182181-2014

Heat insulation of pipelines, equipment, tanks and air ducts

- Technical insulation
- Moisture resistance
- High fire-prevention properties
- High vapor permeability

Intended Use of Material

Plate TECHNO T is meant for heat insulation of air ducts, gas ducts, utility systems, electrical filters, tanks, boilers, process equipment, vertical and horizontal flat surfaces, and furnaces at the sites of various industry facilities (except food industry facilities), as well as in civil construction. The plates shall be applied when the temperature of insulated surfaces is up to +750°C.

Description of the material

Plate TECHNO T is nonflammable, hydrophobizated, heat- and sound insulating plates made of basalt rock wool. The material can be manufactured with one-side reinforced aluminum foil facing.

Storage

The plates shall be stored indoor. It is allowed storage under cover that protects the plates against atmospheric precipitation. When storing, the plates shall be stacked on pallets or supports. Stacking height during storage shall not exceed 3m.



Basic physical and mechanical properties

	PLATE TECHNO T 40	PLATE TECHNO T 60	PLATE TECHNO T 80	PLATE TECHNO T 100	PLATE TECHNO T 120	PLATE TECHNO T 150
Density, kg/m^3	36-44	54-66	72-88	90-110	105-135	135-165
Flammability, degree	NG*	NG*	NG*	NG*	NG*	NG*
Thermal conductivity, W/m*°C, not more						
λ_{25}	0.038	0.037	0.036	0.036	0.038	0.039
λ_{125}	0.054	0.053	0.052	0.051	0.050	0.051
λ_{300}	0.116	0.093	0.086	0.081	0.080	0.077
Compressibility, %, not more	20	10	—	—	—	—
Compression strength in 10% deformation, kPa, not less than	—	—	10	15	20	20
Mass humidity, % not more than	0.5	0.5	0.5	0.5	0.5	0.5
Length, mm	1200, 2400	1200, 2400	1200, 2400	1200, 2400	1200, 2400	1200, 2400
Width, mm	600; 1200	600; 1200	600; 1200	600; 1200	600; 1200	600; 1200
Thickness (in increments of 10mm), mm	50–100	50–100	50–100	50–100	50–100	50–100

* G1 —with reinforced aluminum foil covering

CYLINDER TECHNO

TU 5762-006-74182181-2014 amend. 1

Heat- and sound insulation of pipelines meant for the temperature of up to +640°C

- Technical insulation
- High heat saving
- High vapor permeability
- High fire-prevention properties



Intended Use of Material

Heat- and sound insulation of round pipelines and air ducts at various industry facilities. The cylinders can be used when the temperatures of insulated surfaces are up to +640°C.

Description of the material

Cylinder TECHNO is a non-flammable heat- and sound insulation hollow cylinder made of basalt rock wool. The cylinders can be manufactured with reinforced aluminum, foil facing. In order to ease installation on a pipe, the cylinder has foil overlapping with self-adhesive layer in a cut place. The lock joint (cut) of the cylinder can be straight or profiled. In the premises the foil on the cylinder performs vapor insulation and decorative function. Depending on internal diameter and wall thickness the cylinder can be manufactured in the form of cylinder halves and segments.

Storage

When storing, the cylinders shall be placed in containers or stacked on pallets or supports protecting boxes against soaking from below. Method of stacking shall ensure stable position of the cylinders during storage and disassembly. During the entire period of storage, the material shall be protected against atmospheric precipitation.

Basic physical and mechanical properties

	CYLINDER TECHNO 80	CYLINDER TECHNO 120
Density, kg/m^3	72-88	105-135
Thermal conductivity, W/m*°C, not more than		
λ_{25}	0.036	0.037
λ_{125}	0.048	0.047
λ_{300}	0.082	0.076
Flammability, degree	NG*	NG*
Length, mm	1200	1200
Pipe diameter, internal diameter, mm	18–324	18–324
Thickness (in increments of 10mm), mm	20–120	20–120

* G1 —with reinforced aluminum foil covering

PLATE TECHNO OZB

TU 5762-004-74182181-2014

Heat insulation and fire protection of reinforced concrete structures

- High fire-prevention properties
- Maximum degree of fire resistance
- Moisture resistance
- High heat saving

Intended Use of Material

— Heat insulation and fire protection of reinforced concrete structures in civil and industrial construction, and refurbishment of buildings and structures;
— Increase in reinforced concrete structure fire resistance up to 240 minutes.

Description of the material

Plate TECHNO OZB is non-flammable, hydrophobizated, heat- and sound insulating plate made of basalt rock wool. The plates can also be manufactured with reinforced aluminum foil facing or glass tissue.

Storage

The plates shall be stored packed and stacked on pallets placed on a dry even surface and be separated by brands and sizes. During the entire period of storage, the material shall be protected against atmospheric precipitation.



Basic physical and mechanical properties

	PLATE TECHNO OZB 80	PLATE TECHNO OZB 110
Density, kg/m^3	72-88	99-121
Flammability, degree	NG	NG
Thermal conductivity, W/m*°C, not more than		
λ_{25}	0.037	0.038
λ_A	0.039	0.040
λ_B	0.040	0.042
Compression strength in 10% deformation, kPa, not less than	15	20
Mass humidity, % not more than	0.5	0.5
Indices of fire-resistance as per TN-FIRE RESISTANCE Concrete system, minutes		
40 mm		REI 240
50 mm	REI 180	
Length, mm	1200, 2400	1200, 2400
Width, mm	600, 1200	600, 1200
Thickness (in increments of 10mm), mm	40–200	40–200

PLATE TECHNO OZM

TU 5762-004-74182181-2014

Heat insulation and fire protection of metal structures

High fire-prevention properties

REI 240 — Maximum degree of fire resistance

Moisture resistance

High heat saving



Intended Use of Material

— Heat insulation and fire protection of metal structures in civil and industrial construction, and refurbishment of buildings and structures;
— Increase in constructional steelwork fire resistance from 30 to 240 minutes.

Description of the material

Plate TECHNO OZM is non-flammable, hydrophobizated, heat- and sound insulating plate made of basalt rock wool. The plates can also be manufactured with reinforced aluminum foil facing or glass tissue.

Storage

The plates shall be stored packed and stacked on pallets placed on a dry even surface and be separated by brands and sizes. During the entire period of storage, the material shall be protected against atmospheric precipitation.

Basic physical and mechanical properties

	PLATE TECHNO OZM
Density, kg/m^3	145–175
Flammability, degree	NG
Thermal conductivity, W/m*°C, not more than	
λ_{25}	0.039
Compression strength in 10% deformation, kPa, not less than	25
Mass humidity, % not more than	0.5
Length, mm	1200, 2400
Width, mm	600, 1200
Thickness (in increments of 10mm), mm	30–140

PLATE TECHNO OZD

TU 5762-004-74182181-2014

Fire protection of fireproof doors and gates

High fire-prevention properties

REI 240 — Maximum degree of fire resistance

Moisture resistance

High heat saving

Intended Use of Material

— Insulation of fireproof doors;
— Filler for fireproof doors with various degrees of fire resistance.

Description of the material

Plate TECHNO OZD is non-flammable, hydrophobizated, heat- and sound insulating plate made of basalt rock wool. The plates can also be manufactured with reinforced aluminum foil facing or glass tissue.

Storage

The plates shall be stored packed and stacked on pallets placed on a dry even surface and be separated by brands and sizes. During the entire period of storage, the material shall be protected against atmospheric precipitation.



Basic physical and mechanical properties

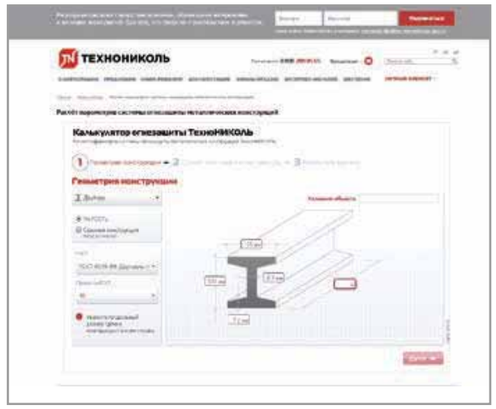
	PLATE TECHNO OZD 110	PLATE TECHNO OZD 190
Density, kg/m^3	100-120	165-195
Flammability, degree	NG	NG
Thermal conductivity, W/m*°C, not more than		
λ_{25}	0.040	0.042
Compression strength in 10% deformation, kPa, not less than	10	20
Mass humidity, % not more than	0.5	0.5
Length, mm	1200, 2400	1200, 2400
Width, mm	600, 1200	600, 1200
Thickness (in increments of 10mm), mm	40–160	40–160

TECHNONIKOL Program for Calculation of Metal Fire Protection

The program allows you to choose thickness of fire-proofing rock wool facing for steel structures, which provides the required degree of fire resistance for beams and columns of various cross sections.
The calculator has been developed based on the manual for calculation of actual fire resistance of steel structures with fireproofing composition made of fire resistant plates TECHNO, developed by FGU VNIIPO of EMERCOM of Russia (Federal State Establishment All-Russian Research Institute for Fire Protection of Ministry of the Russian Federation for Civil Defense, Emergencies and Elimination of Consequences of Natural Disasters).
Calculation of the required thickness shall be carried out on the basis of two main factors:

— the required degree of fire-resistance of the structure; and
— given metal thickness.

As a result you get minimum thickness of fireproof plates, which will provide the required degree of fire-resistance.
The detailed step-by-step calculation can be printed or saved in PDF format.



The program is completely free and available on the website: tn.ru or by direct reference: www.tn.ru/calc/fire_protection/

TECHNONIKOL Program for Calculation of Technical Insulation

Calculation Procedure according to the Code of Practice SP 61.13330.2012

Description of the Software

The program allows you to calculate the required thickness of technical insulation using materials of TECHNONIKOL Corporation.
The program provides four types of calculation as per SP 61.13330.2012 “Thermal insulation of equipment and pipelines” (revised edition of Construction Norms & Regulations SNiP 41-03-2003):

— Calculation based on norms of heat flow density - heat insulation of equipment and pipelines;
— Calculation based on specified temperature on the surface of insulation;
— Calculation as to prevent moisture condensation on the surface of insulation;
— Calculation of insulation for a given value of decrease (increase) of temperature of substance transported by the pipeline.

The program allows you to calculate the required thickness of any TECHNONICOL insulation material, which can be used in specified conditions of calculation. After calculation the program allows you to print detailed calculation report with formulae or to save it as a PDF file.
A large number of tool tips and comments will help you to avoid mistakes in data entry.

Field of Application

For calculation of required insulation thickness in civil and industrial construction, in new construction and modification of pipelines and equipment for various purposes.
Temperature range and scope of calculation are according to the Code of Practice SP 61.13330.2012.

System Requirements

Computer with Internet access, browser with the latest update of Adobe Flash Player.





The program is completely free and available on the website: teplo.tn.ru or by direct reference: teplo.tn.ru/calcs/tech-izol/

Construction Chemicals

5.1 Sealing Foams **130**

5.2 Additives for Concrete **141**

5

TECHNONICOL 45 BALANCE

Professional Sealing Foam

- 45 LITRES — Foam volume output
- Minimum secondary expansion
- Moderate primary expansion
- Excellent adhesion
- Long-term strength
- Quality warranty



Description of the material

TECHNONICOL 45 BALANCE Professional Sealing Foam is a single-component polyurethane material in aerosol can. The sealing foam provides moderate primary extension and low secondary extension. The foam keeps good adhesion with the most construction materials except fluoropolymer, silicone and polyethylene.
It is suitable for sealing, heat- and sound insulation of construction joints when installing window and door units, as well as for filling cracks and voids.

Method of application

The foam shall be released from the can by means of special foam gun. Application according to instruction specified on the can.
Application temperatures:
Winter foam: -18°C to +35°C.
All-season foam: -10°C to +35°C.
Can temperature: +18°C to +25°C.

Storage

The foam cans shall be stored and transported in vertical position in dry place under the temperature of +5°C to +25°C. It is prohibited keeping the cans under direct sunlight and heating them above +50°C.
Guaranteed shelf life is 18 months.

Logistic Parameters

TECHNONICOL 45 BALANCE Professional Sealing Foam comes in 1000ml metal cans (12 pieces per package).

Basic physical and mechanical properties

	TECHNONICOL45 BALANCE	
	ALL-SEASON FOAM	WINTER FOAM
Apparent density of the foam, kg/ cm^3, not more than	30	30
Tack-free time under (23±5) °C, min not more than	10	10
Time of complete polymerization, hour, not more than	24	30
Compression strength in 10% linear deformation, kN/m^3, not less than	35	35
Tensile stress at break, kN/m^3, not less than	80	80
Thermal conductivity, W/m*°K, not more than	0.03	0.03
Gross weight, g	750±10	750±10
Output volume of the can, l, not more than	45	45

TECHNONICOL 65 MAXIMUM

Professional Sealing Foam

- 65 LITRES — Foam volume output
- Minimum secondary expansion
- Moderate primary expansion
- Excellent adhesion
- Long-term strength
- Quality warranty



Description of the material

TECHNONICOL 65 MAXIMUM Professional Sealing Foam is a single-component polyurethane material in aerosol can. The sealing foam provides active primary extension and moderate secondary extension. The foam keeps good adhesion with the most construction materials except fluoropolymer, silicone and polyethylene.
The foam is suitable for sealing, heat- and sound insulation of construction joints when installing window and door units, as well as for filling cracks and voids.

Method of application

The foam shall be released from the can by means of special foam gun. Application according to instruction specified on the can.
Application temperatures:
Winter foam: -18 °C to +35 °C.
All-season foam: -10 °C to +35 °C.
Can temperature: +18 °C to +25 °C.

Storage

The foam bottles shall be stored and transported in vertical position in dry place under the temperatures of +5°C to +25°C. It is prohibited keeping the cans under direct sunlight and heating them above +50°C.
Guaranteed shelf life is 18 months.

Logistic Parameters

TECHNONICOL 65 MAXIMUM Professional Sealing Foam comes in 1000ml metal cans (12 pieces per package).

Basic physical and mechanical properties

	TECHNONICOL65 MAXIMUM	
	ALL-SEASON FOAM	WINTER FOAM
Apparent density of the foam, kg/ cm^3, not more than	30	30
Tack-free time under (23±5) °C, min not more than	10	10
Time of complete polymerization, hour, not more than	24	30
Compression strength in 10% linear deformation, kN/m^3, not less than	35	35
Tensile stress at break, kN/m^3, not less than	80	80
Thermal conductivity, W/m*°K, not more than	0.03	0.03
Gross weight, g	990±10	990±10
Output volume of the can, l, not more than	65	65

TECHNONICOL 65 CONSTANT

Professional Sealing Foam

- 65 LITRES — Foam volume output
- Minimum secondary expansion
- Moderate primary expansion
- Excellent adhesion
- Long-term strength
- Quality warranty



Description of the material

TECHNONICOL 65 CONSTANT Professional Sealing Foam is a single-component polyurethane material in aerosol can. The sealing foam provides moderate primary extension and minimum secondary extension. The foam keeps good adhesion with the most construction materials except fluoropolymer, silicone and polyethylene. The sealing foam has the special formula that provides constant changeless volume of foam since the moment of foaming till the full set of properties.
The foam is suitable for sealing, heat- and sound insulation of construction joints when installing window and door units, as well as for filling cracks and voids.

Method of application

The foam shall be released from the can by means of special foam gun. Application according to instruction specified on the can.
Application temperatures:
Winter foam: -18 °C to +35 °C.
All-season foam: -10 °C to +35 °C.
Can temperature: +18 °C to +25 °C.

Storage

The foam bottles shall be stored and transported in vertical position in dry place under the temperatures of +5°C to +25°C. It is prohibited keeping the cans under direct sunlight and heating them above +50°C.
Guaranteed shelf life is 18 months.

Logistic Parameters

TECHNONICOL 65 CONSTANT Professional Sealing Foam comes in 1000ml metal cans (12 pieces per package).

Basic physical and mechanical properties

	TECHNONICOL65 CONSTANT	
	ALL-SEASON FOAM	WINTER FOAM
Apparent density of the foam, kg/ cm^3, not more than	30	30
Tack-free time under (23±5) °C, min not more than	10	10
Time of complete polymerization, hour, not more than	24	30
Compression strength in 10% linear deformation, kN/m^3, not less than	35	35
Tensile stress at break, kN/m^3, not less than	80	80
Thermal conductivity, W/m*°K, not more than	0.03	0.03
Gross weight, g	990±10	990±10
Output volume of the can, l, not more than	65	65

TECHNONICOL 70 PROFESSIONAL

Professional Sealing Foam

- 70 LITRES — Foam volume output
- Long-term strength
- Excellent adhesion
- Quality warranty
- Minimum secondary expansion
- Moderate primary expansion



Description of the material

TECHNONICOL 70 PROFESSIONAL Professional Sealing Foam is a single-component polyurethane material in aerosol can. The sealing foam provides active primary extension and moderate secondary extension, as well as increased volume of foam output. The foam keeps good adhesion with the most construction materials except fluoropolymer, silicone and polyethylene.
It is suitable for sealing, heat- and sound insulation of construction joints when installing window and door units, as well as for filling cracks and voids.

Method of application

The foam shall be released from the can by means of special foam gun. Application according to instruction specified on the can.
Application temperatures:
Winter foam: -18 °C to +35 °C.
All-season foam: -10 °C to +35 °C.
Can temperature: +18 °C to +25 °C.

Storage

The foam bottles shall be stored and transported in vertical position in dry place under the temperatures of +5°C to +25°C. It is prohibited keeping the cans under direct sunlight and heating them above +50°C.
Guaranteed shelf life is 18 months.

Logistic Parameters

TECHNONICOL 70 PROFESSIONAL Professional Sealing Foam comes in 1000ml metal cans (12 pieces per package)

Basic physical and mechanical properties

	TECHNONICOL 70 PROFESSIONAL	
	ALL-SEASON FOAM	WINTER FOAM
Apparent density of the foam, kg/ cm^3, not more than	30	30
Tack-free time under the temperature of (23±5) °C, min not more than	10	10
Time of complete polymerization, hour, not more than	24	30
Compression strength in 10% linear deformation, kN/m^3, not less than	35	35
Tensile stress at break, kN/m^3, not less than	80	80
Thermal conductivity, W/m*°K, not more than	0.03	0.03
Gross weight, g	1020±10	1020±10
Output volume of the can, l, not more than	70	70

TECHNONICOL 240 PROFESSIONAL

Professional Sealing Foam

- Degree of foam fire resistance – up to 240 minutes
- Resistance to moisture, mold, and aging
- Excellent adhesion
- Long-term strength
- Quality warranty
- Insurance



Description of the material

TECHNONICOL 240 PROFESSIONAL Fire-resistant Sealing Foam is a single-component polyurethane material in aerosol can, which has improved fire properties. Fire resistance of the foam has been confirmed by the certificate of conformity in the sphere of fire safety and reaches 240 minutes. The product is well-resistant to moisture, mold, and aging; it is highly adhesive to the most construction materials, including even the wet ones: polystyrene, polyurethane, concrete, bricks, plastic, wooden and other materials (except fluoropolymer, and polyethylene), and it has high heat and sound insulating properties. The foam is suitable for sealing, heat- and sound insulation of construction joints when installing window and door units, as well as for filling cracks and voids.

Method of application

The foam shall be released from the can by means of special foam gun. Application according to instruction specified on the can.
Application temperatures: +5 °C to +35 °C.
Can temperature: +18 °C to +25 °C.

Storage

The foam bottles shall be stored and transported in vertical position in dry place under the temperatures of +5°C to +25°C. It is prohibited keeping the cans under direct sunlight and heating them above +50°C.
Guaranteed shelf life is 12 months.

Logistic Parameters

TECHNONICOL 240 PROFESSIONAL Fire-resistant Sealing Foam comes in 1000ml metal cans (12 pieces per package).

Basic physical and mechanical properties

	TECHNONICOL 240 PROFESSIONAL
Color	from orange to red
Tack-free film formation time (tack-free time) under the temperature of (20±5) °C and humidity of (60±5) %, min, not more than	10
Preprocess time (cutting) under the temperature of(20±5) °C and humidity of (60±5) %, min, not more than	40
Hardening time under the temperature of 20°C and humidity of over 50%, h, not more than	2
Foam output from a can, liter, not more than	47
Thermal stability (after hardening), °C	-70 to +100
Thermal conductivity, W/m*°K	0.033

TECHNONICOL 500 PROFESSIONAL

All-Purpose Adhesive Foam

- Versatility
- Excellent adhesion
- Long-term strength
- Quality warranty
- Easiness of application
- Insurance



Description of the material

This is all-purpose single-component professional polyurethane adhesive in aerosol can, which is highly adhesive to various bases and can be used for both external and internal works.
TECHNONICOL 500 PROFESSIONAL Adhesive Foam shall be used for the following purposes:

- for fixing insulation plates;
- for fixing plastic panels and other facing materials to the walls;
- gluing gypsum plasterboards in the process of dry building;
- for filling-in cracks between heat-insulating plates

The color is blue.

Method of application:

The foam shall be released from the can by means of special foam gun. Application according to instruction specified on the can under the temperature of 0 °C to +35 °C. Can temperature: +18 °C to +25 °C.

Storage

The foam bottles shall be stored and transported in vertical position in dry place under the temperatures of +5°C to +25°C. It is prohibited keeping the cans under direct sunlight and heating them above +50°C.
Guaranteed shelf life is 18 months.

Logistic Parameters

TECHNONICOL 500 PROFESSIONAL All-Purpose Adhesive Foam comes in 1000ml metal cans (12 pieces per package).

Basic physical and mechanical properties

	TECHNONICOL 500 PROFESSIONAL
Tack-free time under the temperature of (23±5) °C, min, not more than	10
Time of complete polymerization, hour, not more than	24
Binding power (adhesion), MPa, not less than	
Concrete	0.15
Metal	0.07
Wood	0.15
PVC-membrane	0.07
XPS — extruded polystyrene foam	0.13
Degree of can content evacuation, not less than, %	94
Can gross weight, g, within the range	740±10
Can output volume, m^2, not more than	12

TECHNONICOL PROFESSIONAL FOR XPS

Adhesive Foam

- Excellent adhesion
- Corrosion resistance
- Easiness of application
- Long-term strength



Description of the material

TECHNONICOL ADHESIVE FOAM for polystyrene is meant for fixation of plates, made of extruded polystyrene (XPS) and expandable polystyrene (EPS), to the base when heat insulating internal and external building walls, roofs, basements, foundations, floors both in new and reconstructed buildings. TECHNONICOL ADHESIVE FOAM for polystyrene is well resistant to moisture, mold and aging. It keeps high adhesion to concrete, cement plaster and other mineral bases, as well as wood, chipboards, OSB plates etc. Low consumption — 1 can per 10-12m^2 of the insulated surface.

Method of application

Shake the can before use for about 30 seconds. Apply the adhesive foam to the bonded surface and wait about 5 minutes for full expansion of the foam. To accelerate solidification and improve adhesion moisten working surface. Attach the panel with adhesive to the base and fix till the moment of setting-up. Within 15 minutes you can adjust panel position. To be used under the temperatures of 0°C to +35°C.

Storage

The foam bottles shall be stored and transported in vertical position in dry place under the temperatures of +5°C to +35°C. It is allowed short-term temperature lowering to 20°C. Guaranteed shelf life is 18 months.

Logistic Parameters

TECHNONICOL ADHESIVE FOAM for polystyrene comes in 1000ml metal cans with 750ml content.

Basic physical and mechanical properties

	TECHNONICOL PROFESSIONAL FOR XPS
Degree of can content evacuation, %, not less than	94
Tack-free time under the temperature of (23±5) °C, min, not more than	10
Time of complete polymerization, hour, not more than	24
Binding power (adhesion), MPa, not less than	
Concrete	0.15
Bricks	0.10
EPS – foam polystyrene	0.07
XPS – extruded polystyrene	0.13

TECHNONICOL LOGICPIR

Adhesive Foam

- Excellent adhesion
- Long-term strength
- Easiness of application
- Resistance to moisture, mold, and aging
- Corrosion resistance



Description of the material

Polyurethane adhesive in aerosol can on the basis of single-component polyurethane system for gluing PIR plates with glass-cloth (CXM/ CXM) or foil (F/F) cover to various surfaces: bitumen covering, concrete, bricks, plaster, etc. The universal all-season adhesive is well resistant to moisture, mold, and aging; it keeps high adhesion to concrete, cement plaster and other mineral bases, as well as wood, chipboards, OSB plates, mosaic finish etc. Degree of expansion of the adhesive foam allows you to compensate for 15-20mm elevation difference between the PIR plate and the base. Color is blue. It is suitable for quick and durable fastening PIR heat insulation plates when installing external and internal heat insulation systems, as well as sealing gaps between the plates.

Method of application:

The foam shall be released from the can by means of special foam gun. Application according to instruction specified on the can under the temperature of -10°C to +35°C.
Can temperature: +18°C to +25°C.

Storage

The foam cans shall be stored and transported in vertical position in dry place under the temperature of +5°C to +25°C. It is prohibited keeping the cans under direct sunlight and heating them above +50°C.
Guaranteed shelf life is 18 months.

Logistic Parameters:

TECHNONICOL LOGICPIR Adhesive Foam comes in 1000ml metal cans (12 pieces per package).

Basic physical and mechanical properties

	TECHNONICOL LOGICPIR
Tack-free time under the temperature of (23±5) °C, min, not more than	10
Time of complete polymerization, hour, not more than	24
Binding power (adhesion), MPa, not less than	
CXM PIR plates (with glass-cloth cover)	0.13
F PIR plates (with foil cover)	0.12
Concrete	0.14
Bituminous surface	0.14
Degree of can content evacuation, %, not less than	94
Gross weight of the can, g, within the limits of	740±10
Can output when strip width is 30mm, rm, not less than	34
Time for adjustment of bonded surfaces, not more than, min	15

TECHNONICOL FOR GAS-CONCRETE BLOCKS AND MASONRY

Adhesive Foam for Gas-Concrete Blocks and Masonry

- Excellent adhesion
- Long-term strength
- Easiness of application
- Quality warranty



Description of the material

Ready-to-use single-component professional polyurethane adhesive in aerosol can is meant for arrangement of load-bearing walls and partitions made of concrete, ceramic and other blocks. It is well resistant to moisture, mold, and aging and eliminates cold joints. The adhesive is a good alternative to traditional thin- and thick-layer cement masonry mortars. Color is dark grey.

TECHNONICOL Adhesive Foam for Gas-Concrete Blocks and Masonry shall be used as follows:

— For arrangement of load-bearing walls of low-rise buildings made of gas-concrete, ceramic and other blocks.

— For arrangement of self-bearing walls and partitions of all types of buildings made of concrete, ceramic and other blocks.

Method of application

The foam shall be released from the can by means of special foam gun. Application according to instruction specified on the can.

Application temperature range: -10°C to +35°C.

Can temperature: +18°C to +30°C.

Storage

The foam cans shall be stored and transported in vertical position in dry place under the temperature of +5°C to +25°C. It is prohibited keeping the cans under direct sunlight and heating them above +50°C.

Guaranteed shelf life is 18 months.

Logistic Parameters

TECHNONICOL Adhesive Foam For Gas-Concrete Blocks and Masonry comes in 1000ml metal cans (12 pieces per package).

Basic physical and mechanical properties

	TECHNONICOL FOR GAS-CONCRETE BLOCKS AND MASONRY
Tack-free time under the temperature of (23±5) °C, min, not more than	10
Time of complete polymerization, hour, not more than	24
Time for adjustment of bonded surfaces, not more than, min	3
Tensile strength in perpendicular plane after 24 hours, no less than, MPa	
Gas-concrete blocks	0.12
Ceramic blocks	0.12
Degree of can content evacuation, %, not less than	94
Gross weight of the can, g, within the limits of	760±10
Can output when strip width is 30mm, rm, not less than	40

TECHNONICOL MASTER ALL- SEASON

Sealing Foam for Household Use

- Quality warranty
- Easiness of application
- Long-term strength
- Excellent adhesion
- Insurance



Description of the material

TECHNONICOL MASTER Sealing Foam for Household Use is a single-component polyurethane material in aerosol can. The polyurethane comes with special adapter.

The foam keeps high adhesion with the most construction materials: concrete, bricks, wood, metal etc. except polyethylene, silicone and Teflon. It provides favorable heat and sound insulation. It hardens under influence of moisture. Products are available in three brands: TECHNONICOL 450 MASTER; TECHNONICOL 650 MASTER; and TECHNONICOL 800 MASTER. The items differ in weight of can content and, accordingly, foam output volume. The foam is suitable for sealing, heat and sound insulation of construction joints when installing window and door units, as well as for filling cracks and voids.

Method of application

To release the foam from the can screw on special adapter. To be applied according to instruction specified on the can.

Application temperature range: -10°C to +35°C.

Can temperature: +18°C to +25°C.

Storage

The foam cans shall be stored and transported in vertical position in dry place under the temperature of +5°C to +35°C. It is prohibited keeping the cans under direct sunlight and heating them above +50°C.

Guaranteed shelf life is 18 months.

Logistic Parameters

TECHNONICOL MASTER ALL-SEASON Sealing Foam for Household Use comes in 1000ml metal cans (12 pieces per package).

Basic physical and mechanical properties

	TECHNONICOL 450 MASTER	TECHNONICOL 650 MASTER	TECHNONICOL 800 MASTER
Gross weight of the can, g	20	30	50
Can output volume, l, not more than	20	30	50
Tack-free time under the temperature of (23±5) °C, min, not more than	15	15	15
Time of complete polymerization, hour, not more than	24	24	24
Apparent density of the sealing foam, kg/ m^3	45	45	45
Thermal conductivity, W/m*°K, not more than	0.03	0.03	0.03
Tensile stress at break, kN/m^3, not less than	80	80	80
Compression strength in 10% linear deformation, kN/m^3, not less than	35	35	35

TECHNONICOL SEALING FOAM REMOVER

Sealing Foam Remover

Quality warranty

Easiness of application

Insurance



Description of the material

TECHNONICOL PROFESSIONAL Sealing Foam Remover is a mixture of organic solvent with propellant (propellant gas) released from aerosol can by means of sprayer or special gun for professional sealing foams. It is meant for removal of non-hardened sealing foam from window- and door mounting structures, frames, openings, jambs, clothes, as well as for foam gun cleaning. Hardened foam shall be removed mechanically.

Method of application

To clean the gun straight after emptying the foam can, it is necessary to screw-on the can with foam remover onto the gun and to jet the cleaning fluid several times. To clean the cloths against non-hardened sealing foam use adaptor-sprayer.

Storage

The foam cans shall be stored and transported in vertical position in dry place under the temperature of +5°C to +35°C. It is prohibited keeping the cans under direct sunlight and heating them above +50°C.
Guaranteed shelf life is 36 months.

Logistic Parameters

TECHNONICOL Sealing Foam Remover comes in 650ml metal cans (12 pieces per package).

Basic physical and mechanical properties

	TECHNONICOL SEALING FOAM REMOVER
Appearance	Colorless, transparent composition. The body shall be uniform without flakes,
visible foreign inclusions and impurities	370±5
Weight of container, g	370±5
Durability and tightness of container	Shall withstand a test
Water content, mass %, not more than	0.2

TECHNONICOL READY-MIX 101

TU 5745-088-72746455-2014

Plasticizer based on chemical modified polyaromatic alcohols

Increase in concrete strength

Long-term strength

Plasticizing properties

Corrosion resistance

Reduces costs

Intended Use of Material

It is recommended to use Ready-Mix 101 in production of ready-mixed concrete of low and middle classes. Ready-Mix 101 is a plasticizer that reduces quantity of tempering water up to 20% using all advantages of cement hydration increase.

Description of the material

Ready-Mix 101 is a plasticizer based on chemical modified poly-aromatic alcohols. Particle surface area available for hydration increases due to good dispersion. The better hydration of cement particles when mixed with water, the higher strength of concrete in compression.

Execution of Work

The additive shall be used in accordance with GOST 7473-2010. The recommended dosages of additive for production of normal concrete mixtures are in the range of 0.8% to 1.1% (by weight of additive solution) of the weight of cement. Amounts above 1.1% can be used to obtain concrete mixtures of increased water-reducing, which keep flowability.

Storage

Keep under the temperatures of above +5°C. In case of freezing, let thaw and stir thoroughly before use. Shelf life in dry warehouse under the temperatures of +10 to +25° C is 12 months.



Basic physical and mechanical properties

	READY-MIX 101
Appearance	Homogeneous liquid of dark brown color
Water content, mass %, not more than	65
Density, g/cm^3	1.15
Hydrogen ion activity index, pH	4.49

TECHNONICOL READY-MIX 201

TU 5745-089-72746455-2014

Super-plasticizer based on sodium poly-aphthalene-methylene-sulphonate

- Increase in concrete strength
- Long-term strength
- Plasticizing properties
- Corrosion resistance
- Reduces costs



Intended Use of Material

Ready-Mix 201 is a universal additive for production of ready-mixed concrete (of up to B45 class) and prefabricated reinforced concrete.

Description of the material

Ready-Mix 201 is a super-plasticizer based on sodium poly- naphthalene-methylene-sulphonate. It is analogue of well-known additive C-3.

Execution of Work

The additive shall be used in accordance with GOST 7473-2010. Dosages depend on materials used, environmental conditions and requirements to concrete mixture. The recommended dosages of additive for production of normal concrete mixtures are in the range of 0.8% to 1.8% (by weight of additive solution) of the weight of cement. Amounts above 1.8% are recommended to obtain concrete mixtures of increased water-reducing, which keep flowability.

Storage

Keep under the temperatures of above +5°C. In case of freezing, let thaw and stir thoroughly before use. Shelf life in dry warehouse under the temperatures of +10 to +25° C is 12 months.

Basic physical and mechanical properties

	READY-MIX 201
Appearance	Homogeneous liquid of dark brown color
Water content, mass %, not more than	65
Density, g/cm^3	1.15
Hydrogen ion activity index, pH	7.3

TECHNONICOL READY-MIX 221

TU 5745-089-72746455-2014

Concrete plasticizer

- Increase in concrete strength
- Long-term strength
- Plasticizing properties
- Corrosion resistance
- Reduces costs



Intended Use of Material

TECHNONICOL READY-MIX 221 is meant for production of ready-mixed concrete of middle classes with increased flow characteristics of concrete mixture. Ready-Mix 221 Additive is a plasticizer that reduces quantity of mixing water up to 20% using all the benefits from increase in hydration of cement.

Description of the material

Ready-Mix 221 is a super-plasticizer based on sodium poly- naphthalene-methylene-sulphonate (PNS) with decreased dosage as compared to the other additives based on PNS and increased period of flowability of concrete mixture.

Execution of Work

The additive shall be used in accordance with GOST 7473-2010. Dosages depend on materials used, environmental conditions and requirements to concrete mixture. Dosages of additive for production of normal concrete mixtures are in the range of 0.8% to 1.6% (by weight of additive solution) of the weight of cement. Amounts above 1.6% can be used to obtain concrete mixtures of increased water-reducing, which keep flowability.

Storage

Keep under the temperatures of above +5°C. In case of freezing, let thaw and stir thoroughly before use. Shelf life in dry warehouse under the temperatures of +10 to +25° C is 12 months.

Basic physical and mechanical properties

	READY-MIX 221
Appearance	Homogeneous liquid of dark brown color
Water content, mass %, not more than	65
Density, g/cm^3	1.15
Hydrogen ion activity index, pH	5.6

TECHNONICOL READY-MIX 304

TU 5745-090-72746455-2014

Concrete plasticizer

- Increase in concrete strength
- Long-term strength
- Plasticizing properties
- Corrosion resistance
- Reduces costs



Intended Use of Material

TECHNONICOL READY-MIX 304 is meant for production of high-strength concrete when high plasticization and fast concrete strength development are necessary. The additive reduces quantity of mixing water up to 20% using all the benefits from increase in hydration of cement.

Description of the material

Ready-Mix 304 is a super-plasticizer based on mixture of polycarboxylate esters.

Execution of Work

The additive shall be used in accordance with GOST 7473-2010. Additive dosages depend on materials used, environmental conditions and requirements to concrete mixture. The recommended dosages of additive for production of normal concrete mixtures are in the range of 0.8% to 1.1% (by weight of additive solution) of the weight of cement. Amounts above 1.1% can be used to obtain concrete mixtures of increased water-reducing, which keep flowability.

Storage

freezing, let thaw and stir thoroughly before use. Shelf life in dry warehouse under the temperatures of +10 to +25° C is 12 months.

Basic physical and mechanical properties

	READY-MIX 304
Appearance	Homogeneous liquid of light brown color
Water content, mass %, not more than	80
Density, g/cm^3	1.05
Hydrogen ion activity index, pH	3.1

TECHNONICOL READY-MIX 324

TU 5745-090-72746455-2015

Concrete plasticizer

- Increase in concrete strength
- Long-term strength
- Plasticizing properties
- Corrosion resistance
- Reduces costs



Intended Use of Material

TECHNONICOL READY-MIX 324 is meant for production of high-strength concrete when it is necessary to obtain high plasticization and fast concrete strength development.

Description of the material

Ready-Mix 324 is a super-plasticizer based on mixture of polycarboxylate esters. The additive conforms to requirements of GOST 24211 and Specification TU 5745-090-72746455-2015.

Execution of Work

The additive is used in accordance with GOST 7473-2010. Additive dosages depend on materials used, environmental conditions and requirements to concrete mixture. The recommended dosages of additive for production of normal concrete mixtures are in the range of 0.8% to 1.1% (by weight of additive solution) of the weight of cement. Amounts above 1.1% can be used to obtain concrete mixtures of increased water-reducing, which keep flowability.

Storage

Keep under the temperatures of above +5°C. In case of freezing, let thaw and stir thoroughly before use. Shelf life in dry warehouse under the temperatures of +10 to +25° C is 12 months.

Basic physical and mechanical properties

	READY-MIX 324
Appearance	Homogeneous liquid of dark brown color
Water content, mass %, not more than	70
Density, g/cm^3	1.12
Hydrogen ion activity index, pH	4.5

TECHNONICOL PRECAST 451

TU 5745-093-72746455-2014

Plasticizer for Precast Reinforced Concrete

- Increase in concrete strength
- Reduces costs
- Long-term strength
- Corrosion resistance



Intended Use of Material

We recommend use of Precast 451 for precast reinforced concrete, when you need high early strength, short time of concrete steam curing and high-quality surface of work-piece.

Description of the material

Precast 451 is a super-plasticizer based on nitrogenous condensation polymers.

Execution of Work

The additive shall be used in accordance with GOST 7473-2010.
Additive dosages depend on materials used, environmental conditions and requirements to concrete mixture. The recommended dosages of additive for production of normal concrete mixtures are in the range of 0.8% to 1.1% (by weight of additive solution) of the weight of cement. Amounts above 1.1% can be used to obtain concrete mixtures of increased water-reducing, which keep flowability.

Storage

Keep under the temperatures of above +5°C. In case of freezing, let thaw and stir thoroughly before use. Shelf life in dry warehouse under the temperatures of +10 to +25° C is 12 months.

Basic physical and mechanical properties

	PRECAST 451
Appearance	Homogeneous liquid of light yellow color
Water content, mass %, not more than	70
Density, g/cm^3	1.16
Hydrogen ion activity index, pH	11.6

TECHNONICOL ICE 601

TU 5745-094-72746455-2015

Concrete Additive for Cold-Weather Concreting

- Long-term strength
- -25 °C — Freezing resistance under the temperature of -25°C
- Acceleration of concrete strength development



Intended Use of Material

We recommend use of ICE 601 for production of ready-mixed concrete. The additive is meant for cold-weather concreting because it lowers water freezing point and accelerates physical and chemical interaction between cement and water.

Description of the material

ICE 601 is concrete antifreeze consisting of chemically modified poly-alcohols, inorganic salts and organic esters.

Execution of Work

The additive shall be used in accordance with GOST 7473-2010.
Additive dosages depend on materials used, environmental conditions, first of all average daily temperature, and requirements to concrete mixture. The recommended dosages of additive for production of normal concrete mixtures are in the range of 0.8% to 5.0% (by weight of additive solution) of the weight of cement. Amounts exceeding 5.0% can be used to obtain concrete mixtures under the temperature below -25°C.

Storage

Keep under the temperatures of above +5°C. In case of freezing, let thaw and stir thoroughly before use. Shelf life in dry warehouse under the temperatures of +10 to +25° C is 12 months.

Basic physical and mechanical properties

	ICE 601
Appearance	Homogeneous liquid; colorless to pale brown color
Water content, mass %, not more than	70
Density, g/cm^3	1.15
Hydrogen ion activity index, pH	7

TECHNONICOL ICE 621

TU 5745-094-72746455-2015

Concrete Additive for Cold-Weather Concreting

Long-term strength

Freezing resistance under the temperature of -25°C

Acceleration of concrete strength development



Intended Use of Material

We recommend use of ICE 621 for production of ready-mixed concrete. The additive is meant for cold-weather concreting. ICE 621 combines properties of super-plasticizer (i.e. it has plasticizing and water-reducing properties) and antifreeze, i.e. it lowers water freezing point and accelerates physical and chemical interaction between cement and water.

Description of the material

ICE 621 is synthetic antifreeze for concrete consisting of chemically modified poly-alcohols, inorganic salts and organic esters, as well as sodium poly-methylene-naphthalene--sulphonate. The additive conforms to requirements of GOST 24211-2008 and TU 5745-094-72746455-2015.

Execution of Work

The additive shall be used in accordance with GOST 7473-2010.

The recommended dosages of additive for production of normal concrete mixtures are in the range of 0.8% to 5.0% (by weight of additive solution) of the weight of cement. Amounts exceeding 5.0% can be used to obtain concrete mixtures under the temperature below -25°C.

Storage

Keep under the temperatures of above +5°C. In case of freezing, let thaw and stir thoroughly before use. Shelf life in dry warehouse under the temperatures of +10 to +25° C is 12 months.

Basic physical and mechanical properties

	ICE 621
Appearance	Homogeneous liquid; of dark brown color
Water content, mass %, not more than	65
Density, g/cm^3	1.16
Hydrogen ion activity index, pH	8

TECHNONICOL MORTAR 101

TU 5745-094-72746455-2015

Concrete plasticizer

Long-term strength

Reduces costs

Plasticizing properties



Intended Use of Material

We recommend use of Mortar 101 for production of building mortar. The additive Mortar 101 is a plasticizer that reduces quantity of mixing water up to 20% using all the benefits from increase in hydration of cement.

Description of the material

Mortar 101 is a plasticizing and stabilizing additive based on chemically modified poly-aromatic alcohols.

Execution of Work

The additive shall be used in accordance with GOST 7473-2010.

Additive dosages depend on materials used, environmental conditions and requirements to concrete mixture. Dosages of additive for production of normal building mortars are in the range of 0.1% to 1.5% (by weight of additive solution) of the weight of cement. Amounts above 1.5% can be used to obtain mortars of increased water-reducing, which keep flowability.

Storage

Keep under the temperatures of above +5°C. In case of freezing, let thaw and stir thoroughly before use. Shelf life in dry warehouse under the temperatures of +10 to +25° C is 12 months.

Basic physical and mechanical properties

	MORTAR 101
Appearance	Homogeneous liquid; of dark brown color
Water content, mass %, not more than	70
Density, g/cm^3	1.14
Hydrogen ion activity index, pH	4.9

TECHNONICOL AERO D

TU 5745-110-72746455-2016

Concrete plasticizer

Long-term strength

Reduces costs

Low water absorption



Intended Use of Material

We recommend use of Aero-D to increase the air entrainment of concrete mixture, which leads to increased frost resistance and tightness to water.

Description of the material

Aero-D is an air entraining agent on the basis of synthetic surface-active substances.

Execution of Work

Aero-D is an air entraining agent on the basis of synthetic surface-active substances.

Storage

Keep under the temperatures of above +5°C. In case of freezing, let thaw and stir thoroughly before use. Shelf life in dry warehouse under the temperatures of +10 to +25° C is 12 months.

Basic physical and mechanical properties

	AERO-D
Appearance	Transparent liquid; of turquoise color
Water content, mass %, not more than	10
Density, g/cm^3	1.02
Hydrogen ion activity index, pH	7.1

Component Parts and Accessories

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6.3 Component Parts and Accessories for Polymer Roofing Systems **156**

6.4 Component Parts for Rock-Wool Insulation **171**

6

TECHNONICOL OPTIMA SUPER-DIFFUSIVE MEMBRANE

Intended Use of Material

Three-layer microporous membrane. Due to its strength characteristics, the membrane is ideal for the systems of ventilated facades of tall buildings and pitched roofs. The membrane can be used as temporary - up to 4 months - protection against sunlight, wind and precipitations.



TECHNONICOL VAPOR BARRIER FILM FOR WALLS AND SLOPING ROOFS

Intended Use of Material

TEHNONIKOL multi-layer polyethylene vapor barrier film for walls and sloping roofs has been designed to protect roofing pie structure against vapor generated inside the premises.
It has excellent water- and vapor resistance.
The material shall be placed on concrete bases or shaped sheets under the insulant.
It is recommended for use in flat roof systems.



Basic physical and mechanical properties

	SUPER-DIFFUSIVE MEMBRANE	OPTIMA SUPER-DIFFUSIVE MEM-BRANE	SUPER-DIFFUSIVE REINFORCED MEM-BRANE	VAPOR BARRIER FOR WALLS AND SLOPING ROOFS
Length, m	50	50	50	50
Width, m	1.5	1.5	1.5	1.5
Density, g/m^2	85	110	150	80
Breaking load over length, H/5 cm	170	230	290	160
Breaking load over width, H/5 cm	160	180	230	120
Elongation at fracture lengthwise, %	60	60	60	70
Elongation at fracture, across the width, %	60	70	60	80
Vapor permeability, g/(m^2*day)	1100	1000	1000	5
Water-resisting property, water column meters	≥ 2	≥ 2	≥ 2	≥ 2
UV-resistance, months	3	4	4	3

TECHNONICOL VAPOR BARRIER FOR FLAT ROOFS

Intended Use of Material

The vapor barrier has been designed to protect roofing pie structure against vapor generated inside the premises. Due to its excellent water and vapor resistance it minimizes water penetration into enclosure. The material shall be placed on concrete bases or shaped sheets under the insulant.
It is recommended for use in flat roof systems.



Basic physical and mechanical properties

	VAPOR BARRIER FOR FLAT ROOFS
Weight of 1m^3, g, not less than	
— for the thickness of 0.15 mm	110
— for the thickness of 0.18 mm	126
— for the thickness of 0.20 mm	140
Nominal strength, MPa, not less than	
— lengthwise	15
— crosswise	14
Elongation at fracture %, not less than	
— lengthwise	300
— crosswise	400
Vapor permeability resistance m^2*h*Pa/ mg, not less than	36
Change of linear dimensions at a temperature of (70±2)°C within (6.0±0.1) h, %	± 3
Flammability group	G4
Ignitability group	V3

WATER- AND WINDPROOF FILM FOR PITCHED ROOFS AND FACADES

Intended Use of Material

Vapor permeable construction film made of strands of polypropylene. It protects heat insulation layer in façade systems against water, wind and dust. High vapor permeability of the film allows for the removal of excess moisture from engineering structures which in case of accumulation reduces the energy efficiency of a house.



TECHNONICOL ACRYLIC CONNECTING TAPE

Intended Use of Material

The double-sided tape has been designed for connecting vapor-proofing roof films, roof membranes and other construction items. It is made of polyester mesh with a double-sided coating with special glue based on acrylic dispersion, and release paper. The material is high adhesive and resistant to tear.
Tape length is 25m, and width is 2cm.



LIQUID-FUEL- OR GAS BURNERS

Intended Use of Material

The equipment has been designed for overlaying bitumen and bitumen-polymer materials, and preparation of bases (drying and heating-up of floors and roofs) in execution of waterproofing works, as well as other types of repair and construction works, technologically connected with the use of open flame with surface heating temperatures of 400°C.
The works are carried out by means of gas or liquid-fuel roofing burners. The range of products includes both simplified versions of burners and professional equipment for specific operations.



WELDING EQUIPMENT FOR BITUMEN-POLYMER MATERIALS

Intended Use of Material

A special nosepiece is used for modernization of Varimat welding equipment to carry out hot air welding of seams of bitumen materials (Technoelast SOLO RP1, Technoelast FIX).
Use of this nosepiece and wide steel roller allows you to weld rolled bitumen materials with lapped seam of minimum 90 mm width, and binder will run out of the seam.
This method of welding significantly (1.5 times) increases velocity of roof covering arrangement as compared to traditional heat fusing methods with the use of standard propane burners.









Component Parts and Accessories

SEALING PIECES

Intended Use of Material

Rubber gaskets for roof are meant for tight output of sewage pipes, antenna guy ropes and small pipes for various purposes passing through roof covering.
The sealing pieces are made of weather resistant rubber, and highly compatible with bitumen-polymer materials.



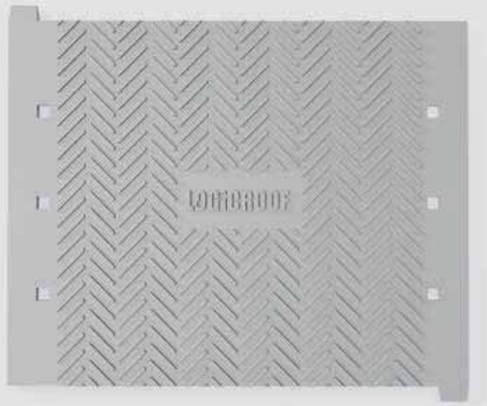
LOGICROOF WALKWAY PUZZLE

Intended Use of Material

LOGICROOF WalkWay Puzzle is meant for construction of operated walkways on the surface of roofs covered with TECHNONIKOL PVC membranes. It protects polymer roofing against mechanical damage and significantly increases its service life. The material keeps high anti-slip properties.

Advantages

Economic benefit as compared to traditional technical solutions. Safe movement of people on the roof. Extreme wear resistance.
2 times reduction of installation time as compared to traditional solutions.



DOUBLE-SIDED VAPOR BARRIER SCOTCH TAPE

Intended Use of Material

Vapor-barrier sealing scotch tape with two working surfaces, each of which is protected with a release film. It keeps good adhesion to the most of construction materials and protects the joint against water- and air ingress. The tape is meant for tight connection of vapor-barrier films and diffusion membranes, as well as for fastening their edges to various bases and adjacent structures.



TECHNONICOL PET 150 AND 300 HEAT-TREATED GEOTEXTILE

Intended Use of Material

Material of 150 g/m^2 to 300 g/m^2 weight. It is widely used in civil construction as a separating, reinforcing, protective, filtering and draining material. The geotextile is resistant to chemicals and can be operated in conditions of high and low temperatures, as well as permanent pressure and friction. Roll width is perfect for placement as a separating layer under TEHNONIKOL polymer membrane.
It is not difficult to drill and screw in self-tapping screws in heat-treated geotextile.



Component Parts and Accessories

A-PROFILE

Intended Use of Material

A-profile is made of high quality polyvinyl chloride resistant to weather impact and UV radiation. It is used with PVC membranes of LOGICROOF and ECOPLAST. The profile is welded to the membrane homogeneously by means of hot air.
A-profile is used on the roofs made of PVC-membranes to imitate look of a seam roof. This allows you to obtain noiseless in the rain and more durable roof that is externally identical to a metal one.



INDUCTION FASTENERS AND INDUCTION WELDING APPARATUS

Intended Use of Material

Induction fastening system is an innovative solution for the roofs under the extreme wind load: i.e. for high buildings and those located on an open space (coastal area, temperate grassland, desert, and countryside). This solution allows use of plates of standard width over the entire area of the roof (in the corner and parapet areas) while reducing the number of fasteners, as well as evenly distribution of wind load onto the roof covering.





SHAPED ELEMENTS FOR PVC-MEMBRANES

Intended Use of Material

The shaped elements are made of plasticized PVC. They are welded with hot air and fully compatible with TECHNONICOL membranes. The elements improve reliability of roof system installation and save labor costs.



PVC external angle ready for use



PVC internal angle ready for use

TECHNONICOL SUPPORT STAND FOR TILES

Intended Use of Material

Convenient supports of P15 and P20 type provide the gap between the tile and the waterproofing layer. This makes it possible to remove excess water from the surface of the roof quickly and easily. The supports and the bearing ring are made of high-density polyethylene and are highly resistant to weather conditions and UV radiation within the temperature range of –50°C to +80°C.



RAINWATER HEADS

Intended Use of Material

The rainwater heads are meant to remove rain water from the surface of flat roofs. TECHNONICOL plastic heads come in large variety for various types of roof (simple flat roof, ballasted roof, walkable roof, green roof etc.). TECHNONICOL plastic heads can be equipped with heating cable to prevent formation of ice coating in inter-season. The rainwater heads are not exposed to corrosion, resistant to various temperature actions on the roof and can be used in all climatic zones of Russia.



TECHNONICOL ROOFING EVACUATION AERATOR

Intended Use of Material

The aerator is meant for roof systems with mechanical fastening to reduce tear force as a result of wind load in the corner and edge zones, as well as to reduce risk of roof covering separation in case of abnormal gusts of wind. Installation of evacuation aerators does not substitute mechanical fastening.



TECHNONICOL ROOFING PVC AERATOR

Intended Use of Material

The aerator is used in arrangement of “breathable” roof. It is meant for sanitation of roofing system and withdrawal of excess vapor form the roofing structure.



TECHNONICOL ROUND PLATE-SHAPED HOLDER

Intended Use of Material

The main field of application is membrane fastening directly to the base of the roof and fencing structures without heat insulation. The round plate-shaped holder distributes the load on the membrane to any base. The well-thought-out geometry of the washer provides stiffness and protects the membrane against «undercut» by both the washer itself and woodscrew head. The main field of application is membrane fastening directly to the base of the roof and fencing structures without heat insulation.



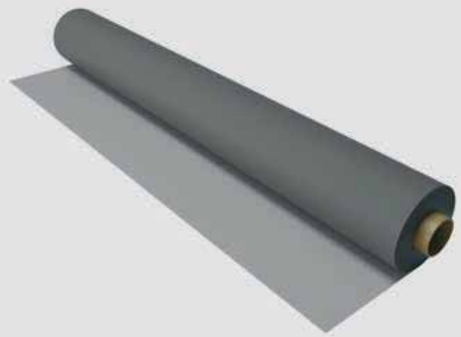
LOGICROOF NG FIREPROOF PROTECTIVE MATERIAL

Intended Use of Material

LOGICROOF NG is a rolled fireproof protective material, which is welded to PVC membrane of LOGICROOF or ECOPLAST to create fire barriers around the skylights and smoke vents. The material is welded by means of hot air using the same technology as for roofing polymer materials.

Advantages

- Long service life, in contrast to the gravel backfill which is spread by birds and wind across the roof as the time passes;
- The all-season installation, it can be laid in any time of the year at the temperature of –15 to +50°C;
- To be applied at any slope;
- It has special covering that allows you to weld the cloth to TECHNONICOL PVC membranes;
- It needs the same equipment as for installation of membranes;
- It saves the time for arrangement of fire barriers. It does not make the structure heavier.



DRAINAGE SYSTEMS

Intended Use of Material

Roof funnel with filter for leaves and clamping flange made of stainless steel can be used for all types of waterproofing materials.

Electric heating keeps reliability of the drainage system in winter, autumn and spring periods. The funnel is made of high-strength material resistant to weather impacts and UV radiation in the range of temperatures of -50 to +80° C.

Drains and overflows that are used to provide continuous or emergency water drainage through a parapet are made of PVC and welded to waterproofing flooring.



Extruded PVC rainwater heads



TECHNONICOL Flanged Extension Piece (EP) for two-level systems

TECHNONICOL HARDWARE

Intended Use of Material

The telescopic fasteners consist of plastic element and special anchor. The fasteners are used for fastening heat insulation, as well as for fastening roofing membrane to the bearing base of zinc-coated shaped sheet, wood or in-situ concrete slab. When fixing into the shaped sheet, the self-tapping screw used shall be provided with a screw drill on its end, and when fixing into concrete a drive anchor shall be used. The range of fasteners includes sizes of 20 to 260mm.

TECHNONICOL edging strip is used to secure edge of roof cladding on a vertical surface, except for curved surfaces. It is fixed to the base by means of self-tapping screw. The upper bend is filled with polyurethane sealant to create tight sealing and prevent water from getting under the membrane.

TECHNONICOL retaining strip is used to fix membrane along the perimeter of the roof and around all outstanding structures. It is installed at the bottom of vertical surfaces, where the vertical and horizontal surfaces are joined. Also it can be used instead of edging strip on curved surfaces to fix membrane edge.

TECHNONICOL retaining steel strip is meant for fixing edge of roof covering at the place of joining with vertical surfaces. It is an alternative to aluminum edging strip and retaining strip. The strip keeps high bending- and torsion strength, as well as high corrosion resistance.



TECHNONICOL SELF-TAPPING SCREWS FOR CONCRETE OF 6.3 DIA.

Intended Use of Material

The self-tapping screws are meant for mechanical mounting the roofing pie to the prefabricated and solid concrete bases (hollow core slabs, ribbed slabs, and reinforced concrete). They are used completed with telescopic fasteners. To ease installation, the self-tapping screws come completed with TORX type bits and 5.5mm boring tool.



LOGICROOF LAMINATED PVC-METAL SHEET

Intended Use of Material

The multilayer sheet obtained as a result of connection of polymer membrane of 0.8mm thickness and thin galvanized steel sheet of 0.6mm thickness shall be used as a technical solution when attaching the membranes at the places of roof adjoining, as intermediate fastening of membrane to walls and parapets, to make protective aprons, expansion joint compensators, elements of external drains and cornice overhang finish. The polymer covering on the upper surface of the metal allows for welding plastic membrane to the metal profile providing tight joint. To weld to PVC membranes the lamented PVC-metal is used. The range includes LOGICROOF TPO-metal as well.



TECHNONICOL POLYURETHANE SEALANT

Intended Use of Material

The sealant is high quality single-component polyurethane visco-elastic mass, which is characterized by suitable plasticity and strong adhesion. After application, the sealant hardens as a result of indirect exposure to moisture and air and forms the firm joint.
It is used for filling upper bend of the edge strips; for additional sealing at the place of installation of water intake funnels, pipe penetrations, supports for equipment on roof, etc.; for sealing lightweight metal and steel structures; for sealing ventilation ducts, silos, containers, reservoirs etc.; for filling and sealing vertical and horizontal compensation joints; for sealing joints in concrete slabs, as well as cable and pipe penetrations.



TECHNONICOL CLEANER FOR PVC MEMBRANES

Intended Use of Material

TECHNONICOL Cleaner for PVC Membranes removes effectively both organic (fats, bitumen, and oil traces) and inorganic pollutants arising during installation and operation of polymer roof. The cleaner is meant for removal of local pollution from the surface of PVC membrane of LOGICROOF- and ECOPLAST brands. It is used for additional surface treatment of PVC membranes before hot air welding or hot wedge welding, as well as for cleaning tools. The cleaner is obligatory to be used before additional sealing the seams with liquid PVC and when welding the new roof with the existing one.



TECHNONICOL CONTACT ADHESIVE FOR PVC MEMBRANES

Intended Use of Material

TECHNONIKOL Adhesive is meant for bonding PVC-membranes of LOGICROOF- and ECOPLAST brands without fleece sublayer to vertical surfaces of various roof structures (parapet walls, pipes, air shafts etc.) made of metal, wood, concrete, stone and other materials. TECHNONICOL Contact Adhesive is not applicable for continuous gluing PVC-membranes to horizontal surfaces of the base.



TECHNONICOL LIQUID PVC

Intended Use of Material

The material is meant for additional protection and sealing of welded seams of LOGICROOF and ECOPLAST PVC membranes against moisture. TECHNONICOL Liquid PVC is plasticized polyvinyl chloride (PVC) solution. After polymerization, the film is formed, which is completely identical in properties to LOGICROOF- and ECOPLAST membranes. TECHNONICOL Liquid PVC increases water-tightness of the weld and reduces risk of capillary leakage through the reinforcing mesh of the membrane.
The color is light grey.



LOGICROOF BOND CONTACT ADHESIVE

Intended Use of Material

High quality single-component contact polyurethane adhesive is meant for manual application. It is used for gluing LOGICROOF FB polymeric membranes with fleece sublayer to the base of concrete, old bitumen carpet, and hard PIR heat retainers with glass fiber backing (LOGICPIR CXM/ CXM).
To facilitate the work, the coloring agent (green, red, or blue) as a signal matter can be added to the adhesive.



ENERGY NT1600 SET FOR LAP JOINT WELDING

Intended Use of Material

A compact and economical tool for manual welding with hot air. It is ideal for installation of roofs of small surface area.



WELD QUALITY TESTER

Intended Use of Material

A handy tool for non-destructive control of joint quality when welding polymer membrane sheets.



TECHNONICOL SEPARATION LAYER

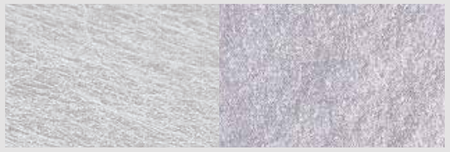
Intended Use of Material

The glass cloth is a rolled material made of randomly positioned fiber-glass filaments, bonded together with synthetic binder. The material keeps high mechanical strength; it is decay- and weather-resistant. The glass cloth is used as a layer separating extruded polystyrene foam and PVC membrane or as reinforcing basis when arranging mastic waterproofing for the roof. The glass cloth is not compatible with cement; therefore it cannot be laid directly onto concrete base and cement-sand screed.

GEOTEXTILE

Geotextile is a material that weighs 150 to 300g/m^2. It is widely used in civil construction as a separating, reinforcing, protective, filtering, and draining material. Geotextile is resistant to chemicals, can be operated in conditions of high and low temperatures, constant pressure and friction. Roll width is perfect for laying under TECHNONICOL polymer membrane as a separation layer. The heat-treated geotextile can be easy drilled and self-tapping screws can be easy screwed in it.







TECHNONICOL PVC RONDEL

Intended Use of Material

The special fastening element, PVC Rondel, is meant for fastening LOGICBASE V-SL waterproofing membranes to vertical surfaces and arches of tunnels. PVC rondels are mechanically fastened to the base through the lining layer, and the reverse side of membrane is welded to the rondel by means of hot air.



SHAPED WATERSTOPS

Intended Use of Material

TECHNONICOL waterstops are used for waterproof insulation of expansion and non-expansion joints of solid concrete structures in new construction of subsurface parts of buildings, underground parking lots, tunnels and collectors, as well as for partitioning waterproof insulation systems based on PVC-membranes. TECHNONICOL waterstops are the shaped tapes made of elastic polymer materials (PVC) by extrusion.

The PVC waterstops have a number of advantages:

— Wide range of operating temperatures (–40 to 70°C);
— High chemical resistance;
— Durability;
— Easy installation;
— Secure fastening in concrete;
— Ecological safety.

The warranty period of the items is 5 years



ADHESIVE WATERSTOP

Intended Use of Material

External waterstop is meant for partitioning waterproofing layer and sealing construction- and expansion joints. The waterstop can be used both during new construction and repair. It can be used both independently and in conjunction with waterproofing PVC membranes. The waterstop consists of TECHNONICOL PVC tape which one side is covered with geotextile and TECHNONICOL double-component epoxy adhesive. The PVC tape is glued to structural steel by means of epoxy adhesive. Width of the tape including geotextile edges amounts to 20 cm.



TECHNONICOL INJECTION CONNECTING BRANCHES

Intended Use of Material

Injection connecting branch is an element of injection system, which is a part of maintainable waterproofing system based on PVC membranes. The connecting branch is meant for supply of injectable repair material to the damaged section of waterproofing system.



PLANTER KREP FASTENERS

Intended Use of Material

PLANTER Krep fasteners are made of low-pressure polyethylene. The fastener is a stud with jags used for fixation in material and a flat plate with adhesive layer protected with easily removable film. It is meant for temporary fixation of PLANTER shaped membranes to various surfaces including bitumen or bitumen-polymer waterproofing in foundation insulation systems.



WALL-4 METAL DISK-SHAPED ANCHOR AND TERMOCLIP HOLDER

Intended Use of Material

Metal anchor is an item, which base element is a special way rolled galvanized steel sheet that forms a spring in cross section.

The anchor holds the load due to frictional forces arisen as a result of straightening the springs in the base material and partial surface pressure along the anchor rod.

The metal roundel is a galvanized metal washer that is placed onto the metal anchor in order to increase the area of anchor cap, and thereby to distribute more evenly mechanical loads on the fire-resistant slab.

Application

Securing fireproof slabs for insulation of concrete structures.

Structures

Concrete structures and reinforced concrete floors.

Installation

To install the anchors it is necessary to drill holes using a hand drilling hammer and a bit of 8mm diameter; and then to drive in the anchors with a hammer. Installation depth (length of the anchor) shall be chosen so that the anchor element goes into the slab by at least 30mm.

Storage

To be stored in covered warehouses on pallets preventing exposure to moisture.





Basic physical and mechanical properties

	SIZE, MM	RATE PER M^2
TECHNONIKOL Metal Anchor	Anchor length: 80, 110, 140, 170, 200, 250	6 to 8 pcs./m^2
Termoclip holder	Dish-shaped –holder dia.: 80 mm	6 to 8 pcs./m^2

CT/WP2 METAL WELDED PIN AND PW2 TERMOCLIP HOLD-DOWN WASHER





Description of the material

The welded pin is made of carbon steel and protected with durable copper corrosion-resistant coating. It has a tip for contact welding with condenser discharge welder. The Hold-down washer is made of carbon steel and protected with durable corrosion-resistant coating. It has elastic slit for securely retaining washer on the pin.

Intended Use of Material

The item is meant for fastening fireproof and heat insulation materials to metal structures of air ducts. To install the pins it is recommended use of the specialized welding apparatuses of the contact type.

Storage

Indoor storage in dry conditions.

Basic physical and mechanical properties

	SIZE
TECHNONIKOL Welded Pin	Length of the pin: 19, 25, 32, 42, 51, 63, 76, 89, 105, 114, 125, 140 mm
TECHNONIKOL 38 Hold-Down Washer	Diameter of the washer: 30, 38 mm

Client Services

7

TECHNONICOL Construction Academy

A system of training- and resource centers for all representatives of the construction industry, i.e. contractors, customers, inspectors, designers and professionals of housing and utility sector, as well as remote training.

There are **18**

training centers in Russia, Ukraine, Belarus, Kazakhstan, and Italy, where you can get relevant book knowledge and practical skills.
16263 persons were trained in 2015.

6900

professionals were certified in 12 specific training programs via the System of remote training over the past year

More than **1000**

persons participate in webinars every month, and they gain the most current knowledge of the best specialists of the industry.



Interactive Complexes

Professionals of Engineering and Technical Center of TECHNONICOL Company created an extensive base of technical and design documents, as well as interactive software systems that are intended to facilitate significantly the work of architects and designers.

Interactive Software Systems

- Interactive reference guide of construction systems
- Programs for calculation of insulation systems
- Technical documentation library
- Design software application

The Latest Technical Documents

- Design guidelines
- Corporate standards
- Albums of construction units
- Research and development findings
- Pocket manuals for installation of insulation systems
- Catalogs of materials and solutions
- Process diagrams
- Certificates

All the latest technical information can be found on the website www.nav.tn.ru



Design and Calculation Center

Organization of work of TECHNONICOL Design and Calculation Center has allowed the company to expand services and to enhance customer support at the phase of design. The individual approach has become a hallmark of the company's service.

Engineering Design

- Thermo-technical calculations of enclosing structures
- Wind load calculation for flat roofs with mechanical fixation
- Development and calculation of flat roof slopes with the use of V-shaped heat insulation
- Calculation of technical and acoustical insulation
- Calculation of constructive fire protection of metal and concrete
- Calculation of quantities of materials and characterization

Individual Approach in Project Support

- Turnkey facility insulation designing
- Development of insulation sections for enclosing structures
- Roof structure designing
- Floor insulation designing
- Facade insulation designing
- Foundation insulation designing
- Calculations of energy efficiency



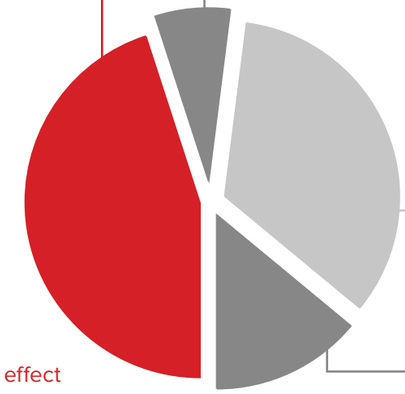
TECHNONIKOL service for quality

The Service for Quality helps constructor, technical supervision and customer in ensuring durability of roofs, facades and underground waterproofing, as well as in creating conditions for effective installation and operation.

The Cause of Possible Defect Formation

45%
Errors
in installation of
insulation systems

Professional performance of installation work and compliance with the rules of operation have a direct effect on the service life of new building or structure



7%
Impacts on insulation system causing damage in the process of construction

34%
Design errors

14%
Damage of material or use of unsuitable insulating materials



Logistic Parameters

Rolled Roofing and Waterproofing Materials

MATERIAL	ROLL AREA, M^2	ROLL WEIGHT, KG	NUMBER OF ROLLS PER PALLET, PCS.	PALLET SIZE, MM	PALLET WEIGHT, KG	PALLET PACKAGE
TECHNOELAST						
TECHNOELAST ACOUSTIC	10	10	16	1000×1200	190	white shrink bag
TECHNOELAST ACOUSTIC — SUPER	10	22	20	1000×1200	470	
TECHNOELAST ALFA EPP	10	50	20	1000×1200	1030	
TECHNOELAST BARRIER	20	44	20	1000×1200	910	
TECHNOELAST BARRIER (BO)- MINI	20	44	20	1000×1200	910	
TECHNOELAST VENT EKV	8	48	20	1000×1200	990	
TECHNOELAST GREEN EPP	10	50	20	1000×1200	1030	
TECHNOELAST GREEN EKP	10	53.5	20	1000×1200	1100	
TECHNOELAST DECOR EKP MIX	10	54	20	1000×1200	1110	
TECHNOELAST MOST B	8	50.4	20	1000×1200	1038	
TECHNOELAST MOST S	8	46.4	20	1000×1200	958	
TECHNOELAST FLAME STOP EKP	10	52	20	1000×1200	1070	
TECHNOELAST PRIME EKM	10	40	25	1000×1200	1030	
TECHNOELAST PRIME EMM	10	30	30	1000×1200	930	
TECHNOELAST S EKS	10	50	20	1000×1200	1030	
TECHNOELAST S EMS	15	51	20	1000×1200	1050	
TECHNOELAST SOLO RP1 EKP	8	51.2	20	1000×1200	1054	
TECHNOELAST TITAN SOLO	8	46.4	16	1000×1200	772.4	
TECHNOELAST TITAN TOP	10	55	16	1000×1200	910	
TECHNOELAST TITAN BASE	10	45	20	1000×1200	930	
TECHNOELAST FIX EPM	10	40	23	1000×1200	950	
TECHNOELAST EMP	10	56	16	1000×1200	926	
ANDEREP ULTRA	15	34.5	23	1000×1200	823.5	white shrink bag
BICROST						
BICROST TKP, HKP, EKP	10	40	25	1000×1200	1030	white shrink bag
BICROST TPP, HPP, EPP	15	45	23	1000×1200	1065	
BIPOLE						
BIPOLE XL TKP, HKP, EKP	10	50	20	1000×1200	1030	white shrink bag
BIPOLE STANDARD TKP, HKP, EKP	10	45	23	1000×1200	1065	
BIPOLE STANDARD TPP, HPP, EPP	15	52.5	20	1000×1200	1080	
BIPOLE TKP, HKP, EKP	10	40	25	1000×1200	1030	
BIPOLE TPP, HPP, EPP	15	45	23	1000×1200	1065	
LINOCROME						
LINOCROME TKP, HKP, EKP	10	46	23	1000×1200	1088	white shrink bag
LINOCROME TPP, HPP, EPP	15	54	20	1000×1200	1110	
TECHNOELAST TKP, EKP	10	55.5	20	1000×1200	1140	white shrink bag
TECHNOELAST TPP, EPP	10	39	25	1000×1200	1005	
UNIFLEX						
UNIFLEX VENT TKP, HKP, EKP	10	55	16	1000×1200	910	white shrink bag
UNIFLEX VENT TPP, HPP, EPP	10	40	20	1000×1200	830	
UNIFLEX TKP, HKP, EKP	10	52	23	1000×1200	1226	
UNIFLEX TPP, HPP, EPP	10	38.5	28	1000×1200	1108	
STEKLOISOL						
STEKLOISOL TKP 4.0, HKP 4.0	10	40	25	1000×1200	1030	to be customized
STEKLOISOL TKP 3.5, HKP 3.5	10	35	28	1000×1200	1010	
STEKLOISOL TPP 3.0 (15), HPP 3.0 (15)	15	45	23	1000×1200	1065	
STEKLOISOL TPP 3.0 (10), HPP 3.0 (10)	10	30	30	1000×1200	930	
STEKLOISOL TPP 2.5, HPP 2.5	10	25	42	1000×1200	1080	
LOGICROOF						
LOGICROOF V-RP 1.2	51.25	84	18	2050×1200	1517	upper flap, stretch film
LOGICROOF V-RP 1.5	41	83	18	2050×1200	1490	
LOGICROOF V-RP 1.8	30.75	70.7	18	2050×1200	1314	
LOGICROOF V-SR 1.5	40	80	18	2050×1200	521	
LOGICROOF V-SL 1.5	40	80	6	2050×1200	1481	
LOGICROOF V-SL 2.0	40	100	15	2050×1200	1601	
LOGICROOF V-RP FR 1.5	52.50	85	18	2050×1200	1610	
LOGICROOF V-GR 1.5	41	82	18	2050×1020	1556	
LOGICROOF V-GR FB 1.5	30.75	67	18	2050×1020	1286	stretch film
LOGICROOF V-ST 1.6	41	80	18	2050×1020	1520	upper flap, stretch film
LOGICROOF 15	52.50	105	10	2050×1020	1050	stretch film
LOGICROOF V-RP ARCTIC 1.2	51.25	82	18	2050×1200	1517	upper flap, stretch film
LOGICROOF V-RP ARCTIC 1.5	41	82	18	2050×1200	1517	
ECOPLAST						
ECOPLAST V-RP 1.2	51.25	82	18	2050×1200	1517	upper flap, stretch film
ECOPLAST V-RP 1.5	41	82	18	2050×1200	1517	
ECOPLAST V-RP Siberia 1.5	41	82	18	2050×1020	1517	
PLANTER						
PLANTER STANDARD	40	24	18	1100×1200	456	stretch film
PLANTER GEO	30	21	18	1100×1200	175	
PLANTER ECO	40	18	23	1100×1200	438	
PLANTER EXTRA-GEO	30	27	9	1100×1200	243	
PLANTER Extra	40	32	12	1100×1200	384	

Mastics

MATERIAL	NET WEIGHT, KG	NUMBER OF PACKAGES PER PALLET, PCS	PALLET SIZE, MM	PALLET WEIGHT, KG	MATERIAL PACKAGE
TECHNONICOL BITUMEN PRIMER #01	8	60	1000×1200	558	pail, 10 l
	16	36	1000×1200	656	pail, 20 l
TECHNONICOL BITUMEN PRIMER #01 (conc.)	18	36	1000×1200	728	pail, 20 l
TECHNONICOL POLYMER-BITUMEN PRIMER #03	18	36	1000×1200	728	pail, 20 l
TECHNONICOL BITUMEN EMULSION PRIMER #04	10	60	1000×1200	678	pail, 10 l
	20	36	1000×1200	800	pail, 20 l
TECHNONICOL ROOFING MASTIC #21 (TECHNOMAST)	3	150	1000×1200	533	pail, 3 l
	10	60	1000×1200	678	pail, 10 l
	20	36	1000×1200	800	pail, 20 l
TECHNONICOL ADHESIVE MASTIC #22 (VISHERA)	20	36	1000×1200	800	pail, 20 l
TECHNONICOL MASTIC FOR FLEXIBLE SHINGLES #23 (FIXER)	3.6	150	1190×990	540	pail, 3.6 l
	12	60	1190×990	720	pail, 12 l
	0.35	1800	1190×990	630	cartridge, 310ml
TECHNONICOL WATERPROOFING MASTIC #24 (MGTN)	3	150	1000×1200	533	pail, 3 l
	10	60	1000×1200	678	pail, 10 l
	20	36	1000×1200	800	pail, 20 l
TECHNONICOL ASPHALT LACQUER #25	2.7	150	1000×1200	488	pail, 3 l
	9	60	1000×1200	618	pail, 10 l
TECHNONICOL ADHESIVE MASTIC #27	10	60	1000×1200	678	pail, 10 l
	20	36	1000×1200	800	pail, 20 l
TECHNONICOL ROOFING AND WATERPROOFING EMULSION MASTIC #31	3	150	1000×1200	533	pail, 3 l
	10	60	1000×1200	678	pail, 10 l
	20	36	1000×1200	800	pail, 20 l
TECHNONICOL BITUMEN EMULSION MASTIC #33	200	4	1000×1200	868	metal or polyethylene barrel, 220 l
TECHNONICOL HOT ROOFING MASTIC #41 (EVRIKA)	30	35	1000×1200	1090	paper bag with siliconized liner
TECHNONICOL POLYMER-BITUMEN SEALANT #42	14	60	1000×1200	900	box with siliconized inner insert
TECHNONICOL BUTYL RUBBER SEALANT #45	18	36	1000×1200	728	pail, 20 l
TECHNONICOL PROTECTIVE ALUMINUM MASTIC #57	3	150	1000×1200	533	pail, 3 l
	10	60	1000×1200	678	pail, 10 l
	20	36	1000×1200	800	pail, 20 l
TECHNONICOL POLYURETHANE SEALANT (intermediate modulus) #70	8.4	55	8501200	462	box, 200×340×150 mm
RUBBEROID GLUE	10	60	1000×1200	678	pail, 10 l
	20	36	1000×1200	800	pail, 20 l
SEALANT 2K	12	48	1000×1200	617	pail, 10 l
MASTIC MBR	18	36	1000×1200	728	paper bag with siliconized liner

Client Services

Sealing foams

EKN CODE	SHORT NEW TITLE	FULL TITLE	GROSS WEIGHT, G	NET WEIGHT, G	PIECES PER BOX	BOXES PER PALLET	VESSELS PER PALLET, PCS.	PALLET NET WEIGHT, KG	PALLET GROSS WEIGHT, KG	PALLETIZING SCHEME
528369	TECHNONIKOL 70 PROFESSIONAL All-Season Sealing Foam	TECHNONIKOL 70 PROFESSIONAL All-Season Sealing Foam, 12*1 020g	1 020	885	12	68	816	832.320	879.52	17 boxes of 4 rows
528370	TECHNONICOL 65 MAXIMUM All-Season Professional Sealing Foam	TECHNONICOL 65 MAXIMUM All-Season Professional Sealing Foam, 12*990g	990	850	12	68	816	693.600	855.04	
528371	TECHNONICOL 65 CONSTANT All-Season Professional Sealing Foam	TECHNONICOL 65 CONSTANT All-Season Professional Sealing Foam, 12*990g	990	850	12	68	816	693.600	855.04	
528372	TECHNONICOL 45 BALANCE All-Season Professional Sealing Foam	TECHNONICOL 45 BALANCE All-Season Professional Sealing Foam, 12*750g	750	610	12	68	816	497.760	659.20	
528373	TECHNONIKOL 70 PROFESSIONAL Winter Sealing Foam	TECHNONIKOL 70 PROFESSIONAL Winter Sealing Foam, 12*1 040g	1 020	885	12	68	816	722.160	879.52	
528374	TECHNONICOL 65 MAXIMUM Winter Professional Sealing Foam	TECHNONICOL 65 MAXIMUM Winter Professional Sealing Foam, 12*990g	990	850	12	68	816	693.600	855.04	
528375	TECHNONICOL 65 CONSTANT Winter Professional Sealing Foam	TECHNONICOL 65 CONSTANT Winter Professional Sealing Foam, 12*990g	990	850	12	68	816	693.600	855.04	
528377	TECHNONICOL 45 BALANCE Winter Professional Sealing Foam	TECHNONICOL 45 BALANCE Winter Professional Sealing Foam, 12*750g	750	610	12	68	816	497.760	659.20	
528379	TECHNONICOL 500 PROFESSIONAL All-Purpose Adhesive Foam	TECHNONICOL 500 PROFESSIONAL All-Purpose Adhesive Foam, 12*740g	740	600	12	68	816	489.600	651.04	
528380	TECHNONICOL 240 PROFESSIONAL Fire-resistant Sealing Foam	TECHNONICOL 240 PROFESSIONAL Fire-resistant Sealing Foam, 12*950g	950	810	12	68	816	660.960	822.40	
528381	TECHNONICOL PROFESSIONAL Adhesive Foam for polystyrene	TECHNONICOL PROFESSIONAL Adhesive Foam for polystyrene, 12*740g	740	600	12	68	816	489.600	651.04	
528382	TECHNONICOL PROFESSIONAL Sealing Foam Remover	TECHNONICOL PROFESSIONAL Sealing Foam Remover, 12*370g	368	263	12	70	840	220.920	357.12	14 boxes of 5 rows
528383	TECHNONICOL 800 MASTER All-Season Sealing Foam for Household Use	TECHNONICOL 800 MASTER All-Season Sealing Foam for Household Use, 12*800g	800	657	12	56	672	441.504	580.00	14 boxes of 4 rows
528384	TECHNONICOL 650 MASTER All-Season Sealing Foam for Household Use	TECHNONICOL 650 MASTER All-Season Sealing Foam for Household Use, 12*650g	650	507	12	70	840	425.880	594.00	14 boxes of 5 rows
528385	TECHNONICOL 450 MASTER All-Season Sealing Foam for Household Use	TECHNONICOL 450 MASTER All-Season Sealing Foam for Household Use, 12*450g	450	307	12	70	840	257.880	426.00	
571209	TECHNONICOL LOGICPIR Adhesive Foam	TECHNONICOL LOGICPIR Adhesive Foam, 12*740g	740	600	12	68	816	489.600	651.04	14 boxes of 5 rows
571827	TECHNONICOL Adhesive Foam for Gas-Concrete Blocks and Masonry	TECHNONICOL Adhesive Foam for Gas-Concrete Blocks and Masonry, 12*900g	900	760	12	68	816	620.160	781.60	

Polymer Compounds

COMPOUND	NET WEIGHT, KG	NUMBER OF PACKAGES PER PALLET, PCS.	PALLET SIZE, MM	PALLET WEIGHT, KG	MATERIAL PACKAGE
TAIKOR Primer 150, component A	20	36 + 36	1000 x 1200x1540	872.96	Pail, 20 kg
TAIKOR Primer 150, component B	1.86				Pail 1.86 kg
TAIKOR Primer 150 winter, component A	20	36 + 36	1000 x 1200x1540	921.20	Pail 20 kg
TAIKOR Primer 150 winter, component B	3.2				Pail 3.2 kg
TAIKOR Primer 210	8	39	800 x 1200x1000	371.78	Pail 8 kg
TAIKOR Elastic 300	12	39	800 x 1200x1000	527.78	Pail 12 kg
TAIKOR Top 425, component A	20	36+36	1000 x 1200x1540	856.40	Pail 20 kg
TAIKOR Top 425, component B	1.4				Pail 1.4 kg
TAIKOR Top 425 winter, component A	20	36+36	1000 x 1200x1540	856.40	Pail 20 kg
TAIKOR Top 425 winter, component B	1.4				Pail 1.4 kg
TAIKOR Top 470	20	36	1000 x 1200x1240	797.00	Pail 20 kg
TAIKOR Top 490, component A	18	36+36	1000 x 1200x1740	919.40	Pail 18 kg
TAIKOR Top 490, component B	5				Pail 5 kg

Extruded Polystyrene

ITEM NAME	PLATE SIZE, MM, EDGE FORM	NUMBER OF PLATES PER PACK, pcs.	PACK AVERAGE WEIGHT, kg	PACK SIZE, mm	PACK VOLUME, m^3	PACKAGE TYPE
XPS TECHNONICOL CARBON PROF 300 (300 RF)	1180×580×50, L (stepwise)	8	9.9	1200×600×400	0.274	heat-shrink film with logo
	1180×580×60, L (stepwise)	7	10.4	1200×600×420	0.288	heat-shrink film with logo
	1180×580×80, L (stepwise)	5	9.9	1200×600×400	0.274	heat-shrink film with logo
	1180×580×100, L (stepwise)	4	9.9	1200×600×400	0.274	heat-shrink film with logo
XPS TECHNONICOL CARBON SLOPE 1.7% (plate A)	1200×600	20	10.4	1200×600×400	0.288	heat-shrink film with logo
XPS TECHNONICOL CARBON SLOPE 1.7% (plate B)	1200×600	10	10.4	1200×600×400	0.288	heat-shrink film with logo
XPS TECHNONICOL CARBON SLOPE 3.4% (plate J)	1200×600	20	10.4	1200×600×400	0.288	heat-shrink film with logo
XPS TECHNONICOL CARBON SLOPE 3.4% (plate K)	1200×600	10	10.4	1200×600×400	0.288	heat-shrink film with logo
XPS TECHNONICOL CARBON SLOPE 8.3% (plate M)	1200×600	12	10.4	1200×600×400	0.288	heat-shrink film with logo
XPS TECHNONICOL CARBON ECO FAS	1180×580×50, L (stepwise)	8	9.9	1200×600×400	0.274	heat-shrink film with logo
XPS TECHNONICOL CARBON ECO DRAIN	1180×580×80, L (stepwise)	7	10.4	1200×600×420	0.288	heat-shrink film with logo
XPS TECHNONICOL CARBON SOLID 500	1180×580×60, L (stepwise)	7	10.4	1200×600×420	0.288	heat-shrink film with logo

Rock Wool

PRODUCT NAME	LENGTH, MM	WIDTH, MM	THICKNESS, MM	PACKAGE	QUANTITY IN PACK			QUANTITY ON PALLET	
					PLATES, PCS.	M^2	M^3	PACKS, PCS.	M^3
TECHNOLIGHT EXTRA	1200	600	50	compression	12	8.640	0.432	20	8.640
	1200	600	50	heat shrinkage	12	8.640	0.432	16	6.912
	1200	600	60		10	7.200	0.432	16	6.912
	1200	600	70		8	5.760	0.403	16	6.451
	1200	600	80		6	4.320	0.346	20	6.912
	1200	600	90		6	4.320	0.389	16	6.221
	1200	600	100	heat shrinkage	6	4.320	0.432	16	6.912
	1200	600	100	compression	6	4.320	0.432	20	8.640
	1200	600	110		4	2.880	0.317	20	6.336

PRODUCT NAME	LENGTH, MM	WIDTH, MM	THICKNESS, MM	PACKAGE	QUANTITY IN PACK			QUANTITY ON PALLET	
					PLATES, PCS.	M^2	M^3	PACKS, PCS.	M^3
TECHNOLIGHT EXTRA	1200	600	120		5	3.600	0.432	16	6.912
	1200	600	130		4	2.880	0.374	16	5.990
	1200	600	140		4	2.880	0.403	16	6.451
	1200	600	150		4	2.880	0.432	16	6.912
	1200	600	160		3	2.160	0.346	20	6.912
	1200	600	170		3	2.160	0.367	16	5.875
	1200	600	180		3	2.160	0.389	16	6.221
	1200	600	190		3	2.160	0.410	16	6.566
	1200	600	200		3	2.160	0.432	16	6.912
TECHNOLIGHT OPTIMA	1200	600	50	heat shrinkage	12	8.640	0.432	16	6.912
	1200	600	50	compression	12	8.640	0.432	20	8.640
	1200	600	60		10	7.200	0.432	16	6.912
	1200	600	70		8	5.760	0.403	16	6.451
	1200	600	80		6	4.320	0.346	20	6.912
	1200	600	90		6	4.320	0.389	16	6.221
	1200	600	100	heat shrinkage	6	4.320	0.432	16	6.912
	1200	600	100	compression	6	4.320	0.432	20	8.640
	1200	600	110		5	3.600	0.396	16	6.336
	1200	600	120		5	3.600	0.432	16	6.912
	1200	600	130		4	2.880	0.374	16	5.990
	1200	600	140		4	2.880	0.403	16	6.451
	1200	600	150		4	2.880	0.432	16	6.912
	1200	600	160		3	2.160	0.346	20	6.912
	1200	600	170		3	2.160	0.367	16	5.875
	1200	600	180		3	2.160	0.389	16	6.221
	1200	600	190		3	2.160	0.410	16	6.566
	1200	600	200		3	2.160	0.432	16	6.912
TECHNOACOUSTIC	1200	600	50	compression	12	8.640	0.432	16	6.912
	1200	600	100	compression	6	8.640	0.432	16	6.912
TECHNOVENT	1200	600	50		6	4.320	0.216	32	6.912
	1200	600	60		5	3.600	0.216	32	6.912
	1200	600	70		4	2.880	0.202	32	6.451
	1200	600	80		5	3.600	0.288	24	6.912
	1200	600	90		4	2.880	0.259	24	6.221
	1200	600	100		4	2.880	0.288	24	6.912
	1200	600	110		3	2.160	0.238	28	6.653
	1200	600	120		3	2.160	0.259	24	6.221
	1200	600	130		2	1.440	0.187	36	6.739
	1200	600	140		2	1.440	0.202	32	6.451
	1200	600	150		2	1.440	0.216	32	6.912
	1200	600	160		2	1.440	0.230	28	6.451
	1200	600	170		2	1.440	0.245	28	6.854
	1200	600	180		2	1.440	0.259	24	6.221
	1200	600	190		2	1.440	0.274	24	6.566
	1200	600	200		2	1.440	0.288	24	6.912
TECHNOVENT OPTIMA	1200	600	50		6	4.320	0.216	32	6.912
	1200	600	60		5	3.600	0.216	32	6.912
	1200	600	70		4	2.880	0.202	32	6.451
	1200	600	80		5	3.600	0.288	24	6.912
	1200	600	90		4	2.880	0.259	24	6.221
	1200	600	100		4	2.880	0.288	24	6.912
	1200	600	110		3	2.160	0.238	28	6.653
	1200	600	120		3	2.160	0.259	24	6.221
	1200	600	130		2	1.440	0.187	36	6.739
	1200	600	140		2	1.440	0.202	32	6.451
	1200	600	150		2	1.440	0.216	32	6.912
	1200	600	160		2	1.440	0.230	28	6.451
	1200	600	170		2	1.440	0.245	28	6.854
	1200	600	180		2	1.440	0.259	24	6.221
	1200	600	190		2	1.440	0.274	24	6.566
	1200	600	200		2	1.440	0.288	24	6.912

PRODUCT NAME	LENGTH, MM	WIDTH, MM	THICKNESS, MM	PACKAGE	QUANTITY IN PACK			QUANTITY ON PALLET	
					PLATES, PCS.	M^2	M^3	PACKS, PCS.	M^3
TECHNOFAS	1200	600	50		5	3.600	0.180	36	6.480
	1200	600	60		4	2.880	0.173	40	6.912
	1200	600	70		3	2.160	0.151	44	6.653
	1200	600	80		3	2.160	0.173	40	6.912
	1200	600	90		3	2.160	0.194	32	6.221
	1200	600	100		3	2.160	0.216	32	6.912
	1200	600	110		2	1.440	0.158	40	6.336
	1200	600	120		2	1.440	0.173	40	6.912
	1200	600	130		2	1.440	0.187	36	6.739
	1200	600	140		2	1.440	0.202	32	6.451
	1200	600	150		2	1.440	0.216	32	6.912
	1200	600	160		2	1.440	0.230	28	6.451
	1200	600	170		2	1.440	0.245	28	6.854
	1200	600	150		2	1.440	0.259	24	6.221
	1200	600	190		2	1.440	0.274	24	6.566
	1200	600	200		1	0.720	0.144	48	6.912
TECHNOROOF N30	1200	600	50		6	4.320	0.216	32	6.912
	1200	600	60		4	2.880	0.173	40	6.912
	1200	600	70		4	2.880	0.202	32	6.451
	1200	600	80		3	2.160	0.173	40	6.912
	1200	600	90		3	2.160	0.194	32	6.221
	1200	600	100		3	2.160	0.216	32	6.912
	1200	600	110		3	2.160	0.238	28	6.653
	1200	600	120		2	1.440	0.173	40	6.912
	1200	600	130		2	1.440	0.187	36	6.739
	1200	600	140		2	1.440	0.202	32	6.451
	1200	600	150		2	1.440	0.216	32	6.912
	1200	600	160		2	1.440	0.230	28	6.451
	1200	600	170		2	1.440	0.245	28	6.854
	1200	600	180		2	1.440	0.259	24	6.221
	1200	600	190		2	1.440	0.274	24	6.566
	1200	600	200		2	1.440	0.288	24	6.912
TECHNOROOF 45	1200	600	50		5	3.600	0.180	36	6.480
	1200	600	60		4	2.880	0.173	40	6.912
	1200	600	70		3	2.160	0.151	44	6.653
	1200	600	80		3	2.160	0.173	40	6.912
	1200	600	90		3	2.160	0.194	32	6.221
	1200	600	100		3	2.160	0.216	32	6.912
	1200	600	110		2	1.440	0.158	40	6.336
	1200	600	120		2	1.440	0.173	40	6.912
	1200	600	130		2	1.440	0.187	36	6.739
	1200	600	140		2	1.440	0.202	32	6.451
TECHNOROOF 45	1200	600	150		2	1.440	0.216	32	6.912
	1200	600	160		2	1.440	0.230	28	6.451
	1200	600	170		2	1.440	0.245	28	6.854
	1200	600	180		2	1.440	0.259	24	6.221
	1200	600	190		2	1.440	0.274	24	6.566
TECHNOROOF N30 VENT	1200	600	50		6	4.3200	0.2160	32	6.9120
TECHNOROOF N35 VENT	1200	600	60		4	2.8800	0.1728	40	6.9120
	1200	600	70		4	2.8800	0.2016	32	6.4512
	1200	600	80		3	2.1600	0.1728	40	6.9120
	1200	600	90		3	2.1600	0.1944	32	6.2208
	1200	600	100		3	2.1600	0.2160	32	6.9120
	1200	600	110		3	2.1600	0.2376	28	6.6528
	1200	600	120		2	1.4400	0.1728	40	6.9120
	1200	600	130		2	1.4400	0.1872	36	6.7392
	1200	600	140		2	1.4400	0.2016	32	6.4512
	1200	600	150		2	1.4400	0.2160	32	6.9120
	1200	600	160		2	1.4400	0.2304	28	6.4512
	1200	600	170		2	1.4400	0.2448	28	6.8544
	1200	600	180		2	1.4400	0.2592	24	6.2208
TECHNOROOF V60	1200	600	40		5	3.600	0.144	44	6.336
	1200	600	50		5	3.600	0.180	36	6.480

PIR Plates

PRODUCT NAME	LENGTH, MM	WIDTH, MM	THICKNESS, MM	QUANTITY IN PACK			QUANTITY ON PALLET		
				PLATES, PCS.	M^2	M^3	PACKS, PCS.	M^3	M^3
TECHNONICOL RIP Heat Insulation Plate (F/F), L-edge	2385	1185	30	19	53.7	1.61	4	226	6.78
	2385	1185	40	14	39.57	1.58	4	170	6.8
	2385	1185	50	11	31.09	1.55	4	136	6.78
	2385	1185	60	9	25.44	1.53	4	102	6.1
	2385	1185	70	8	22.61	1.58	4	90	6.33
	2385	1185	80	7	19.78	1.58	4	85	6.33
	2385	1185	85	7	19.78	1.68	4	79	6.73
	2385	1185	90	5	14.13	1.27	5	71	6.36
	2385	1185	100	3	8.48	0.85	7	68	6.78
TECHNONICOL RIP Heat Insulation Plate (CXM/CXM), L-edge	2385	1185	30	19	53.7	1.61	4	226	6.78
	2385	1185	40	14	39.57	1.58	4	170	6.78
	2385	1185	50	11	31.09	1.55	4	136	6.78
	2385	1185	60	9	25.44	1.53	4	113	6.78
	2385	1185	70	8	22.61	1.58	4	90	6.33
	2385	1185	80	7	19.78	1.58	4	85	6.78
	2385	1185	90	5	14.13	1.27	5	71	6.36
	2385	1185	100	3	8.48	0.85	7	68	6.78

TECHNONICOL Lamella Mat

MAT SIZE (LENGTH x WIDTH x THICKNESS), MM	MAT QUANTITY PER ONE PACK, ROLL (600×600×1205)	
	M^2	M^3
8000×1200×30	9.6	0.288
6000×1200×40	7.2	0.288
5000×1200×50	6	0.3
4000×1200×60	4.8	0.288
3400×1200×70	4.08	0.2856
3000×1200×80	3.6	0.288

TECHNONICOL Cylinder

CYLINDER SIZE (INTERNAL DIA. x WALL THICKNESS x LENGTH), MM	NUMBER OF CYLINDERS IN A BOX (600×600×1205 mm)	
	PCS.	RUNNING METER
18×20×1200	97	116.40
159×20×1200	9	10.80
42×50×1200	16	19.2
219×50×1200	23	6.9
32×90×1200	6	7.2
108×90×1200	9	5.4

Self-Adhesive Sealing Band

NAME	SIZE, LENGTH × WIDTH, MM	PACK SIZE, MM	QUANTITY OF MATERIAL, PCS.	WEIGHT OF ONE PACK, KG	QUANTITY OF MATERIAL ON THE PALLET, PCS.	WEIGHT OF ONE PALLET, KG
NICOBAND / NICOBAND DUO / NICOBAND INSIDE	3000×50	box 240×240×320	24	5.9	480	148
	3000×75	box 240×240×320	16	5.9	320	148
	3000×100	box 240×240×320	12	5.9	720	384
	3000×150	box 240×240×320	8	5.9	480	384
	10000×75	box 180×180×320	4	5	120	180
	10000×100	box 180×180×320	3	5	270	480
	10000×150	box 180×180×320	2	5	180	480
	10000×200	box 180×180×320	1	3.5	90	345
	10000×300	box 180×180×320	1	5	90	480

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