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COMPANY PROFILE



■ 1992

The first office was opened in 1992 in Moscow. In 1994 the Company launched its own first production plant of roll-fed roofing membrane in Vyborg. In subsequent years, dozens of sales offices were opened throughout Russia.

■ 1998

The Vyborg plant started cooperating with Nordic countries, and made first deliveries of materials to Finland and Sweden. This established a new operational level for the Company, that set new challenges - acquiring knowledge of the foreign construction market, studying the regulatory and technological base became necessary. The Technoflex plant in Ryazan was built. It became one of the most modern factories in Europe in the production of roofing and waterproofing materials

■ 1999

The Company had 5 production sites and 35 retail branches in different regions of the Russian Federation. During this year the Company entered the Ukrainian market and opened its first retail branch in Kiev.

Deliveries began to Eastern European countries (Slovakia, Czech Republic and Poland).



■ 2000

TechnoNICOL continued its expansion in Europe. The Company acquired first foreign plant "Gargzdu MIDA", I in Lithuania. At the same time, TechnoNICOL increased the product range, and, therefore, MIDA plant, which was producing bitumen shingles, began producing roll-fed bitumen materials. This provided the Company an opportunity to learn about a new and interesting segment - products for pitched roofs. Products started to be actively delivered to the Baltic countries (Latvia, Lithuania and Estonia).

■ 2001-2008

The product range was increased, and new plants were launched:

- Production of thermal insulation materials was launched: stone wool insulation under the brand of TECHNO and extruded polystyrene - CARBON.
- Plant of flexible tiles SHINGLAS was opened in Ryazan.
- Production of mastics was organized for making combined deliveries of waterproofing and thermal-insulating materials to European venues. Deliveries were made from Vyborg, Ryazan and Osipovichi plants.

At the same time, and representative offices in Latvia, Poland and Turkey were opened during this period.



■ 2008

The Dehtochema plant in Czech Republic was acquired by TechnoNICOL company. This plant was founded in 1868, in the town of Bela pod Bezdezem. Dehtochema had been manufacturing bitumen insulation materials for more than a hundred years. The Company expanded its supply-chain to Central European countries.

TechnoNICOL, like all other European producers, became affected by the global economic crisis. But the Company successfully overcame the crisis, while maintaining and even strengthening its position in certain product markets.

■ 2009-2012

The Company has cooperated with more than 50 independent sales partners and retailers operating in Western and Eastern Europe, Nordic countries, and Baltic countries. At the same time large-scale reconstruction of the plant in the Belarusian town of Osipovichy was on its way. An increase in the product range and capacity of the plant was aimed at the production of bitumen membranes focused exclusively on the European market.



■ 2013

Italiana Membrane plant became a part of the TechnoNICOL Corporation at the end of 2013. The wide range of materials and production capacity of the Italiana Membrane plant allows TechnoNICOL to improve and expand its presence in Europe and the Mediterranean countries.

■ 2014

At the end of 2014 Imper plant became a part of TechnoNICOL.

■ 2014-2016

The combination of advanced management, effective investments, and our structure aimed at company growth and development makes TechnoNICOL one of the leaders in production and distribution of insulation systems in Russia and European countries.



export share **35%**

OUR PRODUCTION IS DESIGNED TO MEET YOUR REQUIREMENTS



We are glad to know that our materials are used in the construction of such complex objects as: houses, plants, bridges, and social infrastructure facilities, which improve the level and quality of life.

Our production capacities and equipment give us ability to supply materials for large construction projects and to develop unique products based on your individual requirements.

Following the regional market demands, Corporation extends geography of the production sites. This makes TechnoNICOL more flexible and able to supply products more promptly without the added transportation costs.

41 production sites over the world



QUALITY OF THE PRODUCTION

Competence of employees, professional technical consultations, development of new materials in our own R&D centers, quality products and solutions - all these allow TechnoNICOL to approach each client individually and help us meet every customer's expectations and needs.

Cooperation with design institutes and architectural offices allows the Corporation to react flexibly and quickly to changes in the consumers demand.

Furthermore the research and development laboratory, has obtained many product certifications issued by prestigious EU and foreign institutes:

- The efficiency of reducing NOx when using material ENVIRO is proven by the Laboratory of Photocatalysis, Institute for Technical Chemistry (Germany).
- The fire-resistant waterproof membranes are tested according to Broof (t2) and correspond to the Euroclass of fire safety of building constructions.
- Some materials have obtained BBA certificates - recognised throughout the construction industry as a symbol of quality and reassurance.



The range of polymer-bitumen membranes covered with BBA certificates:

- Technoelast SBS EPP
- Technoelast SBS EKP
- Technoelast APP EPP
- Technoelast APP EKP

SOCIAL RESPONSIBILITY

We benefit society where we work and environment where we live. We enjoy being a part of what comes in 100 years.

- All plants of the Corporation are subjected to state environmental appraisal at their design stage. The inside and outside environment at our industrial sites is monitored daily. We invest in waste-free production, advanced equipment, and environmental protection technologies.

- All products developed and manufactured by TechnoNICOL meet sanitary and environmental standards and are safe for human beings and the environment. We create energy-efficient technologies and materials to save the environment.

The key of the successful activity of TechnoNICOL resides in the high quality of research and controls Before, during and after production.



Naples, Italy

MCARTUGLEN - LA REGGIA DESIGNER OUTLET



Rēzekne, Latvia

EMBASSY OF LATGALE "GORS"



Klaipeda, Lithuania

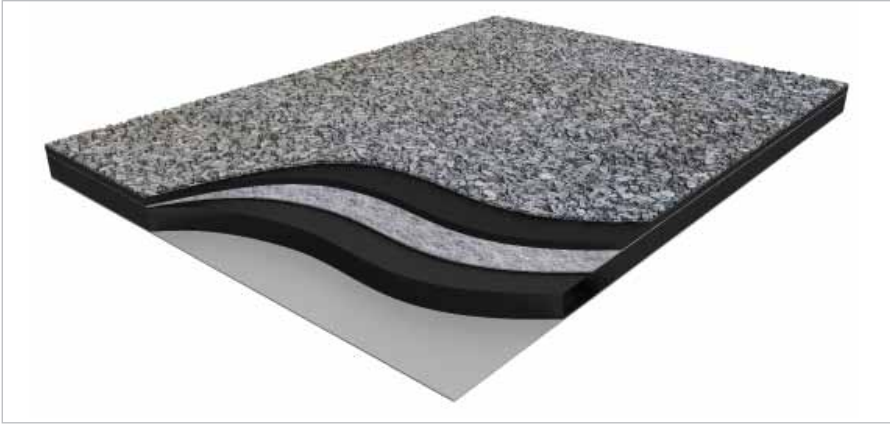
VLANTANA, LOGISTICS CENTER





DESCRIPTION OF ROOFING AND WATERPROOFING MEMBRANES

DESCRIPTION



Roof coverings during their service life undergo the effects of many unfavourable factors from the external environment. Changes in the surrounding temperature cause deformations in both the roofing material and the base on which it is installed. The ability to withstand such deformations is the most important characteristic of roofing material and this depends on the base used in the production of the material.

THE COMPOUND

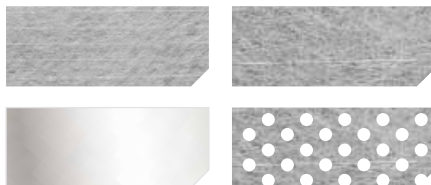
Compound is a specially formulated mixture of bitumens and polymers. The main difference between compound types is in the kind of polymer used:

- **SBS** provide to the compound excellent low temperature workability, resistance to mechanical stress and ideal elastic performance. Their limitation is that they are unstable at high temperatures and do not withstand UV radiation.
- **APP** provide to the compound excellent UV resistance and high temperature stability. Their limitation is that they are less elastic and flexible at low temperatures.
- Special antiroots additives to bitumen make it resistant to damage caused by roots of plants and ensure reliable waterproofing.

THE REINFORCING MAT

Reinforcement can consist of:

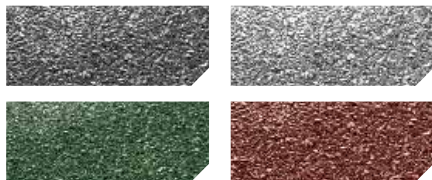
- Glass fibre mat (V): provides dimensional stability and rot resistance.
- Polyester: provides mechanical strength.
- Al aluminum foil - is designed for use as the absolute vapour barrier.
- Composite polyester: polyester mat with glass threads or net.
- Perforated reinforcement is specifically designed for use as the perforated venting underlay, ensures an even distribution of the points of adhesion.



SURFACE TREATMENTS

■ SLATE

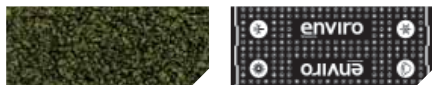
The coarse-grained dressing compound (slate) is used for ultraviolet exposure protection of polymer-bitumen binder. At that, slate is painted in various colors that will help possible aesthetic problems.



Standard colors include natural gray, red, green and white, while other colors are available on request.

The use of hydrophobized slate ensures that the moisture does not reach the binder and increases the adhesion of slate to the material thereby increasing the life expectancy of the roof covering.

■ SPECIAL COVERING



New eco-friendly products line ENVIRO have a real impact on the environment, help to purify the air in cities and have a positive impact on energy efficiency thanks to the finish surface with special additives.

WHITE - surface with white high solar reflection helps to obtain the «Cool Roof» effect on the flat roof.

BLACK - roof covering with black surface provides an energy-efficient effect.

Roofing material **AIR** has a positive effect on the reduction of nitrogen oxides NO_x in the air. The main fighter against nitric oxide NO_x is titanium dioxide TiO₂ with special binder additives.

FOREST surface with additives against the overgrowing with moss and vegetation.

■ FINE-GRAINED SAND OR TALCUM



- fine-grained sand or talcum are used for installation of the subsequent (top) layer on cold- and hot-applied mastics;
- fine-grained sand improves coupling of waterproofing system's layers.

■ FILM



- anti-adhesion polymer film prevents the material from sticking to the roll;
- indicator of the proper heating of the material at torch-on application (for the materials with graphic on the bottom side of the roll). It is ready to be welded when graphic is deformed but visible.

■ VENTILATION DUCTS

Surface with longitudinal strips of special elastomeric compound having some breaks and covered by anti-adhesive polypropylene film. This surface allows to equalize the pressure of the vapor, that accumulates under the roof cladding.

■ SELF-ADHESIVE SURFACE

Special bituminous adhesive compound, protected with easily removable siliconized film. Is used where the standard torch-on application is forbidden (wooden base, extruded polystyrene).

■ PERFORATED SURFACE

Is specifically designed for use as the perforated venting underlay, ensures an even distribution of the points of adhesion.

TORCH-ON APPLICATION



1. The surface must be cleaned of dust, debris, grease, leaves and should not have gaps and cracks or other irregularities. Surface must be treated with primer before installation of waterproofing or insulating material.
2. During installation, material and base must be heated by torch, on all width of the roll. Additionally the place of the overlapping must be heated. During proper installation material sticks to base and on the edges the bitumen is leaking on around 15mm.
3. Overlays along the top roofing material should be located at a distance of min. 300 mm (usually 50% width) from the overlays of bottom material. Across overlays of top layers also should be located at a distance of min. 500 mm.
4. Width of overlaps along material should have at least 80 mm. Recommended overlaps are 100 mm wide for single-layer. Width of head overlaps should be no less than 150 mm. The minimum width of rolled material, which can be mounted is 1 m.
5. In the head overlaps area remove coarse-grained dressing compound, because it significantly reduces the adhesion of roll roofing material. Overlaps must be additionally heated by torch.

APPLICATION WITH MASTIC



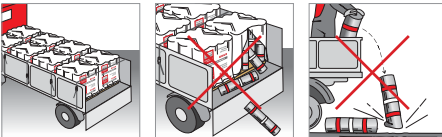
1. The surface must be cleaned of dust, debris, grease, leaves and should not have gaps and cracks or other irregularities. Surface must be treated with primer.
2. Spread the attaching mastic to the base with a special spatula, while adhering to the recommendations about layer. It is recommended to use a specialized cold-applied roofing mastic. You can also apply the hot-applied mastic, which is applied to the surface pre-melted at a temperature of 180°C. **IMPORTANT!** Mastic is always applied to the surface, not on the material.
3. Membranes should be installed on the spread mastic layer, avoiding creases and bubbles. **IMPORTANT!** Only materials with a coating of fine-grained sand are suitable for mastic-application.
4. Straighten the rolled material, smoothing it with a brush, to avoid creases or bubbles of air on the material. Then fix the completely glued roll with a heavy roller.
5. Press down the material on overlappings until the mastic flow out of the joint. Optimally, mastic should be flowed out from the overlappings not more than 10 mm and herewith not less than 7 mm.

INSTALLATION OF SINGLE LAYER MEMBRANE

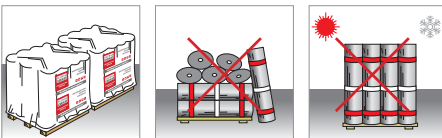


1. Automatic equipment may be used for overlaps adhesion in the process of installation. In this case it is recommended to arrange an additional mountable strip. It will increase convenience and operation speed. At this end joints do not need to be staggered. This technological method can be used in the process of applying traditional equipment – torch. In the system with the surface of the roof made of shaped decking, single layer membrane should be rolled across flooring waves.
2. Longitudinal overlap is 120 mm. Transverse overlapping - 150 mm. Staggered end joints must be arranged at least 150 mm from each other. If the roof surface is made of shaped decking, single layer membrane should be rolled across flooring waves.
3. The corner of the roll between upper and bottom rolls should be cut in the place of T-shaped joints.
4. Cutting of the corner allows to increase the quality of welded connection and to avoid lack of material fusion in this place.
5. Places that can not be welded by automatic equipment, welded by hand using a heat (hot air) gun.

TRANSPORTATION AND STORAGE



- Rolls must be transported in an up-right position on pallet in 1 row.
- Roll's protective film should not be damaged during loading and unloading.
- Use ropes to fasten the pallet in order to avoid the film damage.
- Avoid hard falls or impacts during loading and unloading.



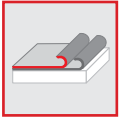
- Rolls should be stored up-right in a 1 row height on pallets.
- Temporary storage of pallets in 2 rows in height is permitted.
- Protect the rolls from direct UV-rays and moisture.
- Minimum distance of 1m from source of heat.

AREAS OF APPLICATION



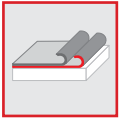
■ SINGLE-PLY MEMBRANE

Waterproofing of shopping centers, industrial or any other buildings where it is important to get the quick result. Installation of single-layer membrane takes much less time than double-layer system.



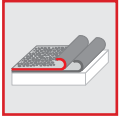
■ CAP SHEET MEMBRANE

The top layer of a double-layer roof cladding. Is used for waterproofing of the flat roof of residential, public or industrial buildings.



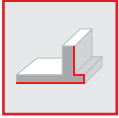
■ UNDERLAY MEMBRANE

The bottom layer of a double-layer roof cladding. Is used for waterproofing of the flat roof of residential, public or industrial buildings.



■ UNDER HEAVY-DUTY PROTECTION

The top layer of the roof cladding in systems of the inversion or ballast roofs. Is used for waterproofing of residential and public buildings and structures with different levels of the roof and a large area of the roof.



■ FOUNDATIONS AND BLIND SIDES OF BELOW-GRADE WALLS

Waterproofing of foundations and prevents the damage of the supporting structures of buildings and underground structures, allows to get rid of damp (wet) walls, efflorescence, damage of the walls by the fungus.



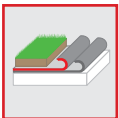
■ ROOFING UNDERLAY

Underlay material for the all kinds of pitched roof with protective covering (roofing) by the piece materials (shingle, ceramic tiles, metall tiles), which involve the use of underlayment.



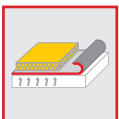
■ INDOOR WATERPROOFING

This group includes a variety of roll waterproofing materials: self-adhesive or fixed to the surface by means of cold or hot mastic.



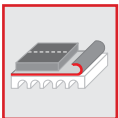
■ ROOT RESISTANT. CAP SHEET MEMBRANE

The top layer of roof cladding in "GREEN ROOF" systems. In this system the role of ballast performs the ground with greenery.



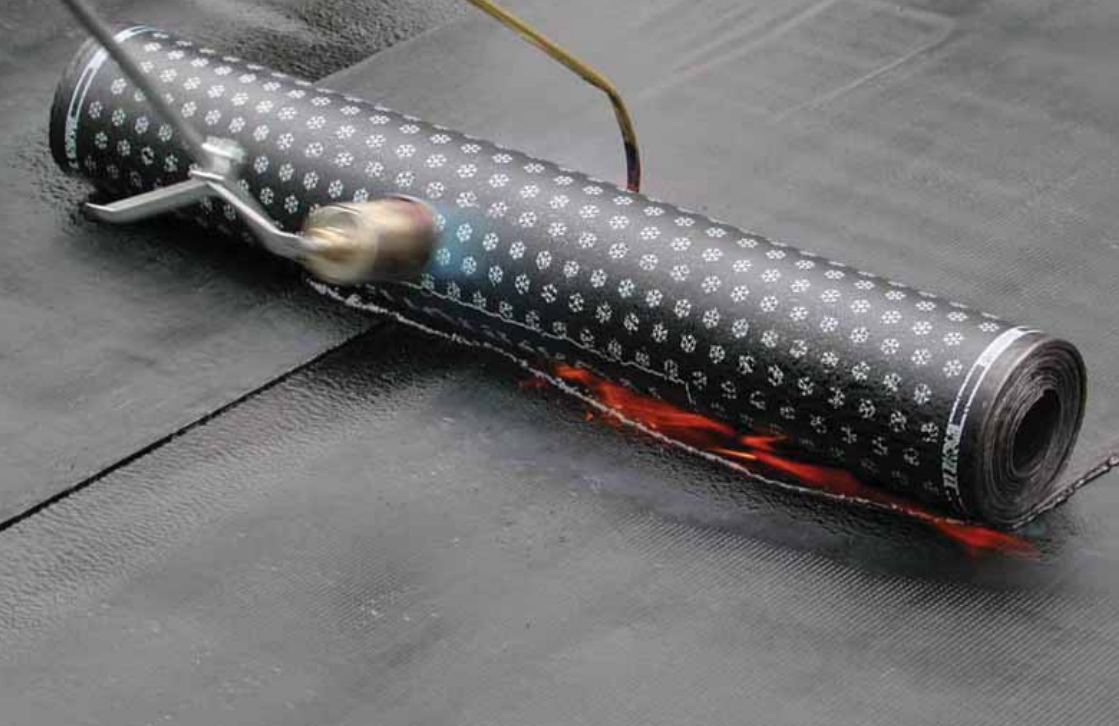
■ VAPOR BARRIER

Vapor barrier for the flat roofs of residential, public and industrial buildings with all types of the base - concrete, metal, wood constructions.



■ WATERPROOFING OVERLAID WITH BITUMEN BINDER COURSE

Waterproofing of concrete bridge decks, roads, car parking and other trafficked areas.



SBS POLYMER-MODIFIED BITUMEN MEMBRANES

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website: www.tn-europe.com



Agrément Certificate

15/5284

Product Sheet 1

TECHNOELAST ROOF WATERPROOFING MEMBRANES

TECHNOELAST SBS EPP AND TECHNOELAST SBS EKP ROOF WATERPROOFING MEMBRANES

This Agrément Certificate Product Sheet⁽¹⁾ relates to Technoelast SBS EPP and Technoelast SBS EKP Roof Waterproofing Membranes, reinforced SBS polymer modified membranes for use as fully- or partially-adhered waterproofing on flat or pitched roofs, or as loose-laid or ballasted waterproofing on flat roofs with limited access or, under heavy protection, for pedestrian access.

(1) Hereinafter referred to as 'Certificate'.

CERTIFICATION INCLUDES:

- factors relating to compliance with Building Regulations where applicable
- factors relating to additional non-regulatory information where applicable
- independently verified technical specification
- assessment criteria and technical investigations
- design considerations
- installation guidance
- regular surveillance of production
- formal three-yearly review.



KEY FACTORS ASSESSED

Weathertightness — the membranes will resist the passage of moisture into the building (see section 6).

Behaviour in relation to fire — the membranes can enable a roof to be unrestricted under the Building Regulations (see section 7).

Resistance to wind uplift — the membranes will resist the effects of any likely wind suction acting on the roof (see section 8).

Resistance to foot traffic — the membranes will accept the limited foot traffic and loads associated with installation and maintenance (see section 9).

Durability — under normal service conditions the membranes will provide a durable roof waterproofing with a service life in excess of 20 years (see section 11).

The BBA has awarded this Certificate to the company named above for the products described herein. These products have been assessed by the BBA as being fit for their intended use provided they are installed, used and maintained as set out in this Certificate.

On behalf of the British Board of Agrément

Date of First issue: 24 December 2015

John Albon – Head of Approvals
Construction Products

Claire Curtis-Thomas
Chief Executive

The BBA is a UKAS accredited certification body – Number 123

The schedule of the current scope of accreditation for product certification is available in pdf format via the UKAS link on the BBA website at www.bbaccerts.co.uk

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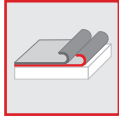
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TECHNOELAST SBS EPP

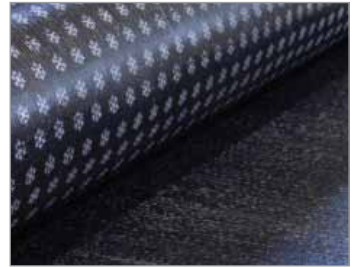
-25°C



Designed for installation as the bottom layer in two layer roofing system on buildings and constructions, for waterproofing of engineering structures and for vapour barrier. Can be used on new construction or repair.



Broof(t2)



Torch-on application to the prepared surface. Material can also be mechanically fixed and the membrane overlapping joints - torch welded.

TECHNICAL DATA

PRODUCT	FLOW RESISTANCE, °C	MAXIMUM TENSILE FORCE L/T, N/50 mm	RESISTANCE TO TEARING, N	ELONGATION, %	REINFORCEMENT TYPE / WEIGHT
TECHNOELAST SBS EPP	≥100	1000±200 700±140	-	50±25 50±25	polyester/glass composite, 180 g/m ²

LOGISTIC DATA

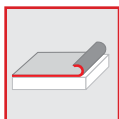
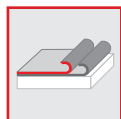
PRODUCT	WEIGHT, kg/m ²	THICKNESS, mm	LENGTH, m	WIDTH, m	ROLLS PER PALLET
TECHNOELAST SBS EPP	4.4	4.0±0.2	10	1	23

TECHNOELAST SBS EKP

-25°C



Designed for installation as the top layer in two layer roofing system on buildings and constructions, for waterproofing of engineering structures. Also used as single-layer membrane. Can be used on new construction or repair.



Torch-on application to the prepared surface.

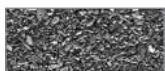
TECHNICAL DATA

PRODUCT	FLOW RESISTANCE, °C	MAXIMUM TENSILE FORCE L/T, N/50 mm	RESISTANCE TO TEARING, N	ELONGATION, %	REINFORCEMENT TYPE / WEIGHT
TECHNOELAST SBS EKP	≥100	1000±200 700±140	-	50±25 50±25	polyester/glass composite, 180 g/m ²

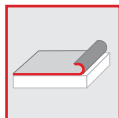
LOGISTIC DATA

PRODUCT	WEIGHT, kg/m ²	THICKNESS, mm	LENGTH, m	WIDTH, m	ROLLS PER PALLET
TECHNOELAST SBS EKP	5.8	4.0±0.2	7.5	1	23

AVAILABLE COLOURS



Designed for installation as the single-ply waterproofing in roofing system on buildings and constructions, for waterproofing of engineering structures. Can be used on new construction or repair.



Torch-on application to the prepared surface. Material can also be mechanically fixed and the membrane overlapping joints - torch welded.

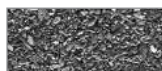
TECHNICAL DATA

PRODUCT	FLOW RESISTANCE, °C	MAXIMUM TENSILE FORCE L/T, N/50 mm	RESISTANCE TO TEARING, N	ELONGATION, %	REINFORCEMENT TYPE / WEIGHT
TECHNOELAST K-Y5 5500	≥100	900±100 700±100	300±60 300±60	50 ±25 50 ±25	polyester, 250 g/m ²

LOGISTIC DATA

PRODUCT	WEIGHT, kg/m ²	THICKNESS, mm	LENGTH, m	WIDTH, m	ROLLS PER PALLET
TECHNOELAST K-Y5 5500	5.5-0.275	-	5	1	20

AVAILABLE COLOURS

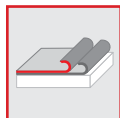


TECHNOELAST K-PS 170/5000

-25°C



Designed for installation as the top layer in two layer roofing system on buildings and constructions, for waterproofing of engineering structures. Can be used on new construction or repair.



Torch-on application to the prepared surface.

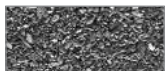
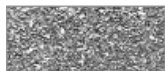
TECHNICAL DATA

PRODUCT	FLOW RESISTANCE, °C	MAXIMUM TENSILE FORCE L/T, N/50 mm	RESISTANCE TO TEARING, N	ELONGATION, %	REINFORCEMENT TYPE / WEIGHT
TECHNOELAST K-PS 170/5000	≥100	700±100 500±100	180±30 180±30	50 ±25 50 ±25	polyester, 170 g/m ²

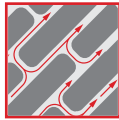
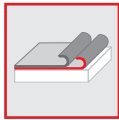
LOGISTIC DATA

PRODUCT	WEIGHT, kg/m ²	THICKNESS, mm	LENGTH, m	WIDTH, m	ROLLS PER PALLET
TECHNOELAST K-PS 170/5000	5.0-0.25	-	8	1 / 0.7 / 0.5 / 0.33	23

AVAILABLE COLOURS



Designed for renovation of an old damaged roof to prevent presence of bulges. The application of elastomeric strips that cover about the 40% of the bottom surface, is activated by torching. The material equalizes the pressure of the vapor, that accumulates under the roof cladding. Vapor is directed to roof aerators, installed in the quantity of 1 per 100 m² (for d=110 mm.), and bulges do not form under the roof cladding.



Torch-on application on the prepared surface. As the bottom of the material has a strip of sand, as in order to attach the material it is sufficient to simply burn the protective film. In the longitudinal and end overlaps the material should be fused very thoroughly, with a flow of molten binder in the overlap at least 0.7 cm.

TECHNICAL DATA

PRODUCT	FLOW RESISTANCE, °C	MAXIMUM TENSILE FORCE L/T, N/50 mm	RESISTANCE TO TEARING, N	ELONGATION, %	REINFORCEMENT TYPE / WEIGHT
TECHNOELAST K-TMS 170/3400	≥90	700±100 500±100	180±30 180±30	50 ±25 50 ±25	polyester, 170 g/m ²

LOGISTIC DATA

PRODUCT	WEIGHT, kg/m ²	THICKNESS, mm	LENGTH, m	WIDTH, m	ROLLS PER PALLET
TECHNOELAST K-TMS 170/3400	3.4-0.17	-	10	1	25

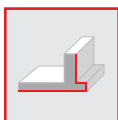
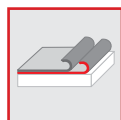
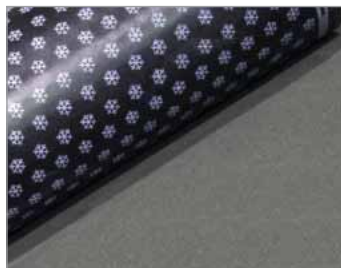
TECHNOELAST K-MS 170/4000

-25°C



Designed for installation as the bottom layer in two layer roofing system on buildings and constructions, for waterproofing of engineering structures and for vapour barrier.

Can be used on new construction or repair. Can be used as two-layer waterproofing for the foundations (according to EN 13969). Can be used as underlay for bitumen shingles. Not recommended to use as single ply waterproofing.



Torch-on application to the prepared surface. When used as underlay for bitumen shingles can be fastened mechanically.

TECHNICAL DATA

PRODUCT	FLOW RESISTANCE, °C	MAXIMUM TENSILE FORCE L/T, N/50 mm	RESISTANCE TO TEARING, N	ELONGATION, %	REINFORCEMENT TYPE / WEIGHT
TECHNOELAST K-MS 170/4000	≥100	700±100 500±100	180±30 180±30	50 ±25 50 ±25	polyester, 170 g/m ²

LOGISTIC DATA

PRODUCT	WEIGHT, kg/m ²	THICKNESS, mm	LENGTH, m	WIDTH, m	ROLLS PER PALLET
TECHNOELAST K-MS 170/4000	4.0-0.20	3.3±0.2	10	1 / 0.5	23

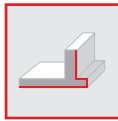
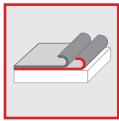
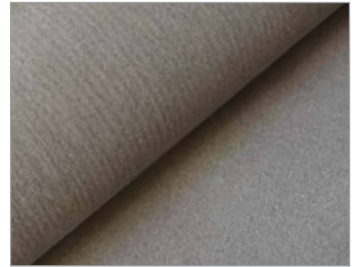
TECHNOELAST K-MS 170/3000

-25°C



Designed for installation as the bottom layer in two layer roofing system on buildings and constructions, for waterproofing of engineering structures and for vapour barrier.

Can be used on new construction or repair. Can be used as two-layer waterproofing for the foundations (according to EN 13969). Can be used as underlay for bitumen shingles. Not recommended to use as single ply waterproofing.



Broof(t2)

Glued to the prepared surface with cold- or hot-applied bitumen mastic. When used as underlay for bitumen shingles can be fastened mechanically.

TECHNICAL DATA

PRODUCT	FLOW RESISTANCE, °C	MAXIMUM TENSILE FORCE L/T, N/50 mm	RESISTANCE TO TEARING, N	ELONGATION, %	REINFORCEMENT TYPE / WEIGHT
TECHNOELAST K-MS 170/3000	≥100	700±100 500±100	180±30 180±30	50 ±25 50 ±25	polyester, 170 g/m ²

LOGISTIC DATA

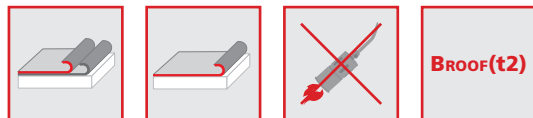
PRODUCT	WEIGHT, kg/m ²	THICKNESS, mm	LENGTH, m	WIDTH, m	ROLLS PER PALLET
TECHNOELAST K-MS 170/3000	3.0-0.15	2.5±0.2	10	1 / 0.7 / 0.5	30

TECHNOELAST SBS 4500 MULTIROOF SELF

-20°C



Designed for installation as the top layer of roof cladding on buildings and constructions. Used for new roofing construction and for repair of old roof.



Self-adhesive material. Membrane is used where the standard torch-on application is forbidden (wooden base, extruded polystyrene).

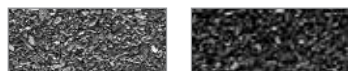
TECHNICAL DATA

PRODUCT	FLOW RESISTANCE, °C	MAXIMUM TENSILE FORCE L/T, N/50 mm	RESISTANCE TO TEARING, N	ELONGATION, %	REINFORCEMENT TYPE / WEIGHT
TECHNOELAST SBS 4500 MULTIROOF	≥95	700±100 500±100	180±30 180±30	50 ±25 50 ±25	polyester, 170 g/m ²

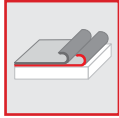
LOGISTIC DATA

PRODUCT	WEIGHT, kg/m ²	THICKNESS, mm	LENGTH, m	WIDTH, m	ROLLS PER PALLET
TECHNOELAST SBS 4500 MULTIROOF	4.3-0.2	-	7	1	23

AVAILABLE COLOURS



Designed for installation as the top layer in two layer roofing system on buildings and constructions. It is also used as underlayment during installation of bitumen shingles.



Self-adhesive material. Membrane is used where the standard torch-on application is forbidden (wooden base, extruded polystyrene).

TECHNICAL DATA

PRODUCT	FLOW RESISTANCE, °C	MAXIMUM TENSILE FORCE L/T, N/50 mm	RESISTANCE TO TEARING, N	ELONGATION, %	REINFORCEMENT TYPE / WEIGHT
MIDA SELF PV S2.0s	≥85	500±100 350±100	≥ 100	45 ± 15 45 ± 15	polyester

LOGISTIC DATA

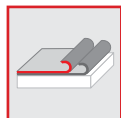
PRODUCT	WEIGHT, kg/m ²	THICKNESS, mm	LENGTH, m	WIDTH, m	ROLLS PER PALLET
MIDA SELF PV S2.0s	2.9±0.2	2.0	15	1	25

UNIFLEKS EKP

-20°C



Designed for installation as the top layer in two layer roofing system on buildings and constructions, for waterproofing of engineering structures. Can be used on new construction or repair. Not recommended to use as single ply waterproofing.



Torch-on application to the prepared surface.

TECHNICAL DATA

PRODUCT	FLOW RESISTANCE, °C	MAXIMUM TENSILE FORCE L/T, N/50 mm	RESISTANCE TO TEARING, N	ELONGATION, %	REINFORCEMENT TYPE / WEIGHT
UNIFLEKS EKP	≥95	700±100 500±100	180±30 180±30	50 ±25 50 ±25	polyester, 160 g/m ²
UNIFLEKS EKP 5.0	≥95	700±100 500±100	180±30 180±30	50 ±25 50 ±25	polyester, 180 g/m ²
UNIFLEKS EKP EXTRA	≥95	700±100 500±100	180±30 180±30	50 ±25 50 ±25	polyester, 180 g/m ²

LOGISTIC DATA

PRODUCT	WEIGHT, kg/m ²	THICKNESS, mm	LENGTH, m	WIDTH, m	ROLLS PER PALLET
UNIFLEKS EKP	4.7-0.235	3.8±0.1	10	1	23
UNIFLEKS EKP 5.0	5.0-0.250	4.1±0.1	10	1	20
UNIFLEKS EKP EXTRA	5.5-0.275	4.4±0.1	8	1	23

AVAILABLE COLOURS

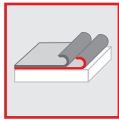


UNIFLEKS EPP

-20°C



Designed for installation as the bottom layer in two layer roofing system on buildings and constructions, for waterproofing of engineering structures and for vapour barrier. Can be used as two-layer waterproofing for the foundations (according to EN 13969). Not recommended to use as single ply waterproofing.



Torch-on application to the prepared surface. Material can also be mechanically fixed and the membrane overlapping joints - torch welded.

TECHNICAL DATA

PRODUCT	FLOW RESISTANCE, °C	MAXIMUM TENSILE FORCE L/T, N/50 mm	RESISTANCE TO TEARING, N	ELONGATION, %	REINFORCEMENT TYPE / WEIGHT
UNIFLEKS EPP	≥95	700±100 500±100	180±30 180±30	50 ±25 50 ±25	polyester, 160 g/m ²

LOGISTIC DATA

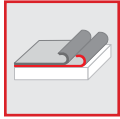
PRODUCT	WEIGHT, kg/m ²	THICKNESS, mm	LENGTH, m	WIDTH, m	ROLLS PER PALLET
UNIFLEKS EPP	3.7-0.185	2.8 ±0.1	10	1	25

BIPOL HPP

-15°C



Designed for installation as the bottom layer in two layer roofing system on buildings and constructions, for waterproofing of engineering structures and for vapour barrier. Can be used on new construction or repair on the rigid construction. Not recommended to use as single ply waterproofing.



Torch-on application to the prepared surface.

TECHNICAL DATA

PRODUCT	FLOW RESISTANCE, °C	MAXIMUM TENSILE FORCE L/T, N/50 mm	RESISTANCE TO TEARING, N	ELONGATION, %	REINFORCEMENT TYPE / WEIGHT
BIPOL HPP	≥85	400±100 250±100	50±10 50±10	2.2±0.22 2.2±0.22	glass-fiber, 55 g/m ²
BIPOL STANDART HPP	≥85	400±100 250±100	50±10 50±10	2.2±0.22 2.2±0.22	glass-fiber, 55 g/m ²

LOGISTIC DATA

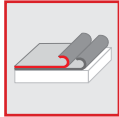
PRODUCT	WEIGHT, kg/m ²	THICKNESS, mm	LENGTH, m	WIDTH, m	ROLLS PER PALLET
BIPOL HPP	3.0-0.150	2.5 ±0.1	15	1	23
BIPOL STANDART HPP	3.5-0.175	2.9 ±0.1	15	1	23

BIPOL STANDART HKP

-15°C



Designed for installation as the top layer in two layer roofing system on buildings and constructions, for waterproofing of engineering structures. Can be used on new construction or repair. Not recommended to use as single ply waterproofing.



Torch-on application to the prepared surface.

TECHNICAL DATA

PRODUCT	FLOW RESISTANCE, °C	MAXIMUM TENSILE FORCE L/T, N/50 mm	RESISTANCE TO TEARING, N	ELONGATION, %	REINFORCEMENT TYPE / WEIGHT
BIPOL STANDART HKP	≥85	400±100 250±100	50±10 50±10	2.2±0.22 2.2±0.22	glass-fiber, 55 g/m ²

LOGISTIC DATA

PRODUCT	WEIGHT, kg/m ²	THICKNESS, mm	LENGTH, m	WIDTH, m	ROLLS PER PALLET
BIPOL STANDART HKP	4.5-0.225	-	10	1	23

AVAILABLE COLOURS

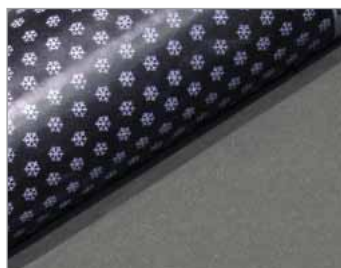
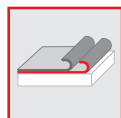


BIPOL STANDART EMP

-15°C



Designed for installation as the bottom layer in two layer roofing system on buildings and constructions, for waterproofing of engineering structures. Can be used on new construction or repair. Not recommended to use as single ply waterproofing.



Torch-on application to the prepared surface.

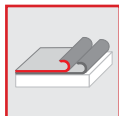
TECHNICAL DATA

PRODUCT	FLOW RESISTANCE, °C	MAXIMUM TENSILE FORCE L/T, N/50 mm	RESISTANCE TO TEARING, N	ELONGATION, %	REINFORCEMENT TYPE / WEIGHT
BIPOL STANDART EMP	≥85	700±200 600±200	180±30 180±30	50±25 50±25	polyester, 170 g/m ²

LOGISTIC DATA

PRODUCT	WEIGHT, kg/m ²	THICKNESS, mm	LENGTH, m	WIDTH, m	ROLLS PER PALLET
BIPOL STANDART EMP	3.7-0.185	2.9 ±0.1	15	1	23

Designed for installation as the top layer in two layer roofing system on buildings and constructions, for waterproofing of engineering structures. Can be used on new construction or repair. Not recommended to use as single ply waterproofing.



Torch-on application to the prepared surface.

TECHNICAL DATA

PRODUCT	FLOW RESISTANCE, °C	MAXIMUM TENSILE FORCE L/T, N/50 mm	RESISTANCE TO TEARING, N	ELONGATION, %	REINFORCEMENT TYPE / WEIGHT
BIPOL EKP	≥85	600±200 500±200	180±50 180±50	50±25 50±25	polyester, 160 g/m ²
BIPOL STANDART EKP	≥85	600±200 500±200	180±50 180±50	50±25 50±25	polyester, 160 g/m ²
BIPOL XL EKP	≥85	600±200 500±200	180±50 180±50	50±25 50±25	polyester, 160 g/m ²

LOGISTIC DATA

PRODUCT	WEIGHT, kg/m ²	THICKNESS, mm	LENGTH, m	WIDTH, m	ROLLS PER PALLET
BIPOL EKP	4.0-0.200	-	10	1	25
BIPOL STANDART EKP	4.5-0.225	-	10	1	23
BIPOL XL EKP	5.0-0.250	-	10	1	20

AVAILABLE COLOURS

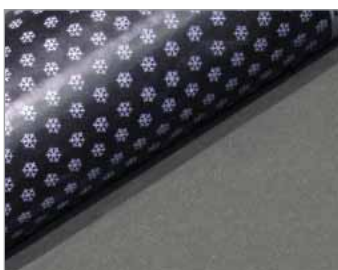
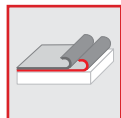


BICROELAST HPP / HMP

-10°C



Designed for installation as the bottom layer in two layer roofing system on buildings and constructions, for waterproofing of engineering structures and for vapour barrier. Can be used on new construction or repair on the rigid foundation. Not recommended to use as single ply waterproofing.



Torch-on application on to the prepared surface.

TECHNICAL DATA

PRODUCT	FLOW RESISTANCE, °C	MAXIMUM TENSILE FORCE L/T, N/50 mm	RESISTANCE TO TEARING, N	ELONGATION, %	REINFORCEMENT TYPE / WEIGHT
BICROELAST HPP	≥85	400±100 250±100	50±10 50±10	2.2±0.22 2.2±0.22	glass-fiber, 55 g/m ²
BICROELAST HMP	≥85	400±100 250±100	50±10 50±10	2.2±0.22 2.2±0.22	glass-fiber, 55 g/m ²

LOGISTIC DATA

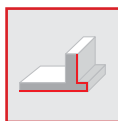
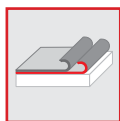
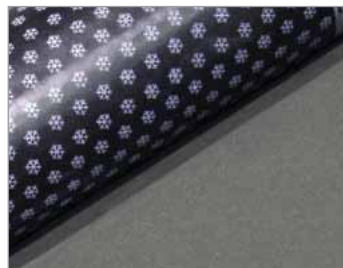
PRODUCT	WEIGHT, kg/m ²	THICKNESS, mm	LENGTH, m	WIDTH, m	ROLLS PER PALLET
BICROELAST HPP	3.0-0.15	2.5±0.1	15 / 16	1	23
BICROELAST HMP	3.0-0.15	2.5±0.1	15 / 16	1	23

BICROELAST EMP

-10°C



Designed for installation as the bottom layer in two layer roofing system on buildings and constructions, for waterproofing of engineering structures. Can be used on new construction or repair. Two layers of membrane can be used for the waterproofing of foundations (according to EN 13969). Not recommended to use as single ply waterproofing.



Torch-on application to the prepared surface.

TECHNICAL DATA

PRODUCT	FLOW RESISTANCE, °C	MAXIMUM TENSILE FORCE L/T, N/50 mm	RESISTANCE TO TEARING, N	ELONGATION, %	REINFORCEMENT TYPE / WEIGHT
BICROELAST EMP 2.5 kg	≥85	600±100 500±100	180±50 180±50	50±25 50±25	polyester, 160 g/m ²
BICROELAST EMP	≥85	600±100 500±100	180±50 180±50	50±25 50±25	polyester, 160 g/m ²

LOGISTIC DATA

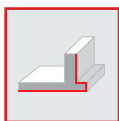
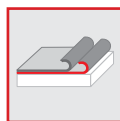
PRODUCT	WEIGHT, kg/m ²	THICKNESS, mm	LENGTH, m	WIDTH, m	ROLLS PER PALLET
BICROELAST EMP 2.5 kg	2.5±0.10	-	16	1	23
BICROELAST EPP	3.0-0.15	2.5±0.1	15	1	23

BICROELAST EPP

-10°C



Designed for installation as the bottom layer in two layer roofing system on buildings and constructions, for waterproofing of engineering structures. Can be used on new construction or repair. Two layers of membrane can be used for the waterproofing of foundations (according to EN 13969). Not recommended to use as single ply waterproofing.



Torch-on application to the prepared surface.

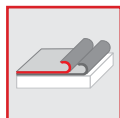
TECHNICAL DATA

PRODUCT	FLOW RESISTANCE, °C	MAXIMUM TENSILE FORCE L/T, N/50 mm	RESISTANCE TO TEARING, N	ELONGATION, %	REINFORCEMENT TYPE / WEIGHT
BICROELAST EPP 2.5 kg	≥85	600±100 500±100	180±50 180±50	50±25 50±25	polyester, 160 g/m ²
BICROELAST EPP	≥85	600±100 500±100	180±50 180±50	50±25 50±25	polyester, 160 g/m ²
BICROELAST EPP 4.0	≥85	600±100 500±100	180±50 180±50	50±25 50±25	polyester, 160 g/m ²

LOGISTIC DATA

PRODUCT	WEIGHT, kg/m ²	THICKNESS, mm	LENGTH, m	WIDTH, m	ROLLS PER PALLET
BICROELAST EPP 2.5 kg	2.5±0.10	-	16	1	23
BICROELAST EPP	3.0-0.15	2.5±0.1	15	1	23
BICROELAST EPP 4.0	4.0-0.20	3.2±0.1	16	1	23

Designed for installation as the top layer in two layer roofing system on buildings and constructions, for waterproofing of engineering structures. Can be used on new construction or repair. Not recommended to use as single ply waterproofing.



Torch-on application to the prepared surface.

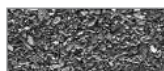
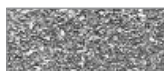
TECHNICAL DATA

PRODUCT	FLOW RESISTANCE, °C	MAXIMUM TENSILE FORCE L/T, N/50 mm	RESISTANCE TO TEARING, N	ELONGATION, %	REINFORCEMENT TYPE / WEIGHT
BICROELAST EKP	≥85	600±100 500±100	180±50 180±50	50±25 50±25	polyester, 160 g/m ²

LOGISTIC DATA

PRODUCT	WEIGHT, kg/m ²	THICKNESS, mm	LENGTH, m	WIDTH, m	ROLLS PER PALLET
BICROELAST EKP	4.0-0.20	3.4±0.2	10	1	23

AVAILABLE COLOURS

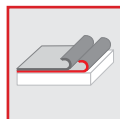
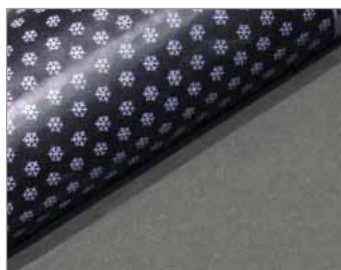


MIDA STANDARD PV S

-10°C



Designed for installation as the bottom layer in two layer roofing system on buildings and constructions, for waterproofing of engineering structures and for vapour barrier. Can be used on new construction or repair. Not recommended to use as single ply waterproofing.



Torch-on application to the prepared surface. Material can also be mechanically fixed and the membrane overlapping joints - torch welded.

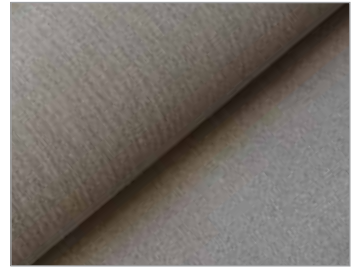
TECHNICAL DATA

PRODUCT	FLOW RESISTANCE, °C	MAXIMUM TENSILE FORCE L/T, N/50 mm	RESISTANCE TO TEARING, N	ELONGATION, %	REINFORCEMENT TYPE / WEIGHT
MIDA STANDARD PV S4	≥85	600±200 500±200	200±100 200±100	50±20 50±20	polyester
MIDA STANDARD PV S4.5	≥85	600±200 500±200	200±100 200±100	50±20 50±20	polyester

LOGISTIC DATA

PRODUCT	WEIGHT, kg/m ²	THICKNESS, mm	LENGTH, m	WIDTH, m	ROLLS PER PALLET
MIDA STANDARD PV S4	-	4.0±0.2	10	1	23
MIDA STANDARD PV S4.5	-	4.5±0.1	10	1	23

Designed for installation as the bottom layer in two layer roofing system on buildings and constructions, for waterproofing of engineering structures and for vapour barrier. Can be used as underlay for bitumen shingles. Not recommended to use as single ply waterproofing.



Glued to the prepared surface with cold- or hot-applied bitumen mastic. When used as underlay for bitumen shingles can be fastened mechanically.

TECHNICAL DATA

PRODUCT	FLOW RESISTANCE, °C	MAXIMUM TENSILE FORCE L/T, N/50 mm	RESISTANCE TO TEARING, N	ELONGATION, %	REINFORCEMENT TYPE / WEIGHT
YEP 2200	≥80	500±100 500±100	180±30 180±30	50±25 50±25	polyester, 160 g/m ²

LOGISTIC DATA

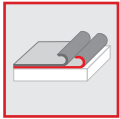
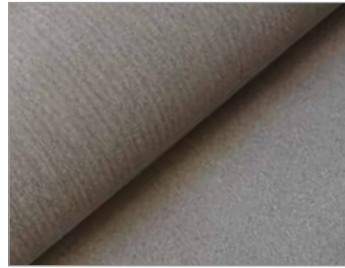
PRODUCT	WEIGHT, kg/m ²	THICKNESS, mm	LENGTH, m	WIDTH, m	ROLLS PER PALLET
YEP 2200	2.2-0.11	-	10	1	36

BICROST HMM YAM 2000

0°C



Designed for installation as the bottom layer in two layer roofing system on buildings and constructions, for waterproofing of engineering structures and for vapour barrier. Can be used as underlay for bitumen shingles or other types of roofing for pitched roofs. Not recommended to use as single layer waterproofing.



Glued to the prepared surface with cold- or hot-applied bitumen mastic. When used as underlay can be fastened mechanically.

TECHNICAL DATA

PRODUCT	FLOW RESISTANCE, °C	MAXIMUM TENSILE FORCE L/T, N/50 mm	RESISTANCE TO TEARING, N	ELONGATION, %	REINFORCEMENT TYPE / WEIGHT
BICROST HMM YAM 2000	≥80	400±150 300±150	30±10 30±10	2.2±0.22 2.2±0.22	glass-fiber, 55 g/m ²

LOGISTIC DATA

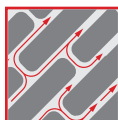
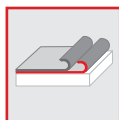
PRODUCT	WEIGHT, kg/m ²	THICKNESS, mm	LENGTH, m	WIDTH, m	ROLLS PER PALLET
BICROST HMM YAM 2000	2.0±0.25	-	15	1	30

BICROST PERFOR

0°C



Is specifically designed for use as the perforated venting underlay, ensures an even distribution of the points of adhesion. Used as the bottom layer in a torch applied roofing system, will provide a partial bond to prepared non-combustible substrates. It is recommended in the renovation of old roofing systems.



Loose laid (partially bonded by torch application of the subsequent layer).

TECHNICAL DATA

PRODUCT	FLOW RESISTANCE, °C	MAXIMUM TENSILE FORCE L/T, N/50 mm	RESISTANCE TO TEARING, N	ELONGATION, %	REINFORCEMENT TYPE / WEIGHT
BICROST PERFOR HMM	≥80	300±50 200±50	30±10 30±10	2.2±0.22 2.2±0.22	glass-fiber, 55 g/m ²
BICROST PERFOR HKM	≥80	300±50 200±50	30±10 30±10	2.2±0.22 2.2±0.22	glass-fiber, 55 g/m ²

LOGISTIC DATA

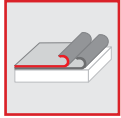
PRODUCT	WEIGHT, kg/m ²	THICKNESS, mm	LENGTH, m	WIDTH, m	ROLLS PER PALLET
BICROST PERFOR HMM	1.8±0.1	-	15	1	30
BICROST PERFOR HKM	2.7±0.1	-	15	1	25

MIDA BIT V13b

0°C



Designed for installation as the top layer in two layer roofing system on buildings and constructions. Can be used on new construction or repair. Not recommended to use as single ply waterproofing.



Glued to the prepared surface with cold- or hot-applied bitumen mastic.

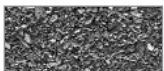
TECHNICAL DATA

PRODUCT	FLOW RESISTANCE, °C	MAXIMUM TENSILE FORCE L/T, N/50 mm	RESISTANCE TO TEARING, N	ELONGATION, %	REINFORCEMENT TYPE / WEIGHT
MIDA BIT V13b	≥80	400±100 300±100	≥ 100	2.2±0.22 2.2±0.22	glass-fiber, 90 g/m ²

LOGISTIC DATA

PRODUCT	WEIGHT, kg/m ²	THICKNESS, mm	LENGTH, m	WIDTH, m	ROLLS PER PALLET
MIDA BIT V13b	3.8±0.2	-	10	1	23

AVAILABLE COLOURS

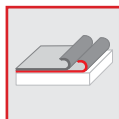


MIDA BIT V13s

0°C



Designed for installation as the bottom layer in two layer roofing system on buildings and constructions, for waterproofing of engineering structures. Can be used on new construction or repair. Can be used as underlay for bitumen shingles. Not recommended to use as single ply waterproofing.



CLASSE

Glued to the prepared surface with cold- or hot-applied bitumen mastic. When used as underlay for bitumen shingles can be fastened mechanically.

TECHNICAL DATA

PRODUCT	FLOW RESISTANCE, °C	MAXIMUM TENSILE FORCE L/T, N/50 mm	RESISTANCE TO TEARING, N	ELONGATION, %	REINFORCEMENT TYPE / WEIGHT
MIDA BIT V13s	≥80	400±100 300±100	≥ 100	2.2±0.22 2.2±0.22	glass-fiber, 90 g/m ²

LOGISTIC DATA

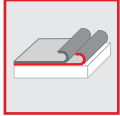
PRODUCT	WEIGHT, kg/m ²	THICKNESS, mm	LENGTH, m	WIDTH, m	ROLLS PER PALLET
MIDA BIT V13s	3.8±0.2	-	10	1	23

MASTERBIT GV 3

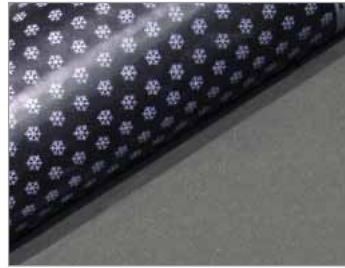
+5°C



Designed for installation as the bottom layer in two layer roofing system on buildings and constructions, for waterproofing of engineering structures. Can be used on new construction or repair. Not recommended to use as single ply waterproofing.



CLASS E



Torch-on application to the prepared surface.

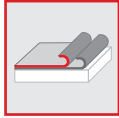
TECHNICAL DATA

PRODUCT	FLOW RESISTANCE, °C	MAXIMUM TENSILE FORCE L/T, N/50 mm	RESISTANCE TO TEARING, N	ELONGATION, %	REINFORCEMENT TYPE / WEIGHT
MASTERBIT GV 3	≥80	600±150 300±150	180±30 180±30	50±25 50±25	glass-fiber, 55 g/m ²

LOGISTIC DATA

PRODUCT	WEIGHT, kg/m ²	THICKNESS, mm	LENGTH, m	WIDTH, m	ROLLS PER PALLET
MASTERBIT GV 3	-	2.5-0.2	15	1	30

Designed for installation as the top layer in two layer roofing system on buildings and constructions. Can be used on new construction or repair. Not recommended to use as single ply waterproofing.



Glued to the prepared surface with cold- or hot-applied bitumen mastic.

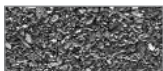
TECHNICAL DATA

PRODUCT	FLOW RESISTANCE, °C	MAXIMUM TENSILE FORCE L/T, N/50 mm	RESISTANCE TO TEARING, N	ELONGATION, %	REINFORCEMENT TYPE / WEIGHT
W 400	≥70	400±100 400±100	-	2.0±0.10 2.0±0.10	glass-fiber, 55 g/m ²
W 400 LIGHT	≥80	400±100 400±100	-	2.0±0.10 2.0±0.10	glass-fiber, 55 g/m ²

LOGISTIC DATA

PRODUCT	WEIGHT, kg/m ²	THICKNESS, mm	LENGTH, m	WIDTH, m	ROLLS PER PALLET
W 400	2.8±0.2	-	10	1	25
W 400 LIGHT	2.4±0.2	-	10	1	25

AVAILABLE COLOURS





Olsztyn, Poland
WARMINSKA SHOPPING CENTER



Harjumaa, Estonia
SHOPPING CENTRE



Salaspils, Latvia
SALASPILS SPORTS CENTER



**APP POLYMER-MODIFIED
BITUMEN MEMBRANES**

TechnoNicol-Vyborg Ltd

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188804
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email: sales@vbg.tn.ru
website: www.tn-europa.com



Agrément Certificate
15/5275
Product Sheet 1

TECHNOELAST ROOF WATERPROOFING MEMBRANES

TECHNOELAST APP EPP AND TECHNOELAST APP EKP ROOF WATERPROOFING MEMBRANES

This Agrément Certificate Product Sheet¹ relates to Technoelast APP EPP and Technoelast APP EKP Roof Waterproofing Membranes, polyester-reinforced, atactic polypropylene (APP) modified bitumen membranes for use as fully or partially bonded waterproofing for flat or pitched roofs with limited access.

(1) Hereinafter referred to as 'Certificate'.

CERTIFICATION INCLUDES:

- factors relating to compliance with Building Regulations where applicable
- factors relating to additional non-regulatory information where applicable
- independently verified technical specification
- assessment criteria and technical investigations
- design considerations
- installation guidance
- regular surveillance of production
- formal three-yearly review.



KEY FACTORS ASSESSED

Weatherightness — the membranes will resist the passage of moisture into the building [see section 6].

Properties in relation to fire — the membranes will enable a roof to be unrestricted under the Building Regulations (see section 7).

Resistance to wind uplift — the membranes will resist the effects of any likely wind suction acting on the roof (see section 8).

Resistance to foot traffic — the membranes will accept the limited foot traffic and loads associated with installation and maintenance (see section 9).

Durability — under normal service conditions the membranes will provide a durable roof waterproofing with a service life in excess of 20 years [see section 11].

The BBA has awarded this Certificate to the company named above for the products described herein. These products have been assessed by the BBA as being fit for their intended use provided they are installed, used and maintained as set out in this Certificate.

On behalf of the British Board of Agrément

Date of First issue: 23 November 2015

John Albon — Head of Approvals
Construction Products

Claire Curtis-Thomas
Chief Executive

The BBA is a UKAS accredited certification body — Number 113. The schedule of the current scope of accreditation for product certification is available in pdf format via the UKAS link on the BBA website at www.bbacerts.co.uk

Readers are advised to check the validity and latest issue number of this Agrément Certificate by either referring to the BBA website or contacting the BBA direct.

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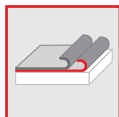
©2015

TECHNOELAST APP EPP

-15°C



Designed for installation as the bottom layer in two layer roofing system on buildings and constructions, for waterproofing of engineering structures and for vapour barrier. Can be used on new construction or repair.



Broof(t2)



Torch-on application to the prepared surface. Material can also be mechanically fixed and the membrane overlapping joints - torch welded.

TECHNICAL DATA

PRODUCT	FLOW RESISTANCE, °C	MAXIMUM TENSILE FORCE L/T, N/50 mm	RESISTANCE TO TEARING, N	ELONGATION, %	REINFORCEMENT TYPE / WEIGHT
TECHNOELAST APP EPP	≥120	970±290 690±207	-	50±25 50±25	polyester, 250 g/m ²

LOGISTIC DATA

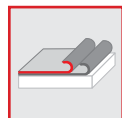
PRODUCT	WEIGHT, kg/m ²	THICKNESS, mm	LENGTH, m	WIDTH, m	ROLLS PER PALLET
TECHNOELAST APP EPP	4.1-0.2	4.0±0.2	8	1	23

TECHNOELAST APP EKP

-15°C



Designed for installation as the top layer in two layer roofing system on buildings and constructions. Can be used on new construction or repair. Not recommended to use as single ply waterproofing.



BR00F(t2)



Torch-on application to the prepared surface.

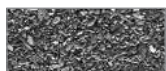
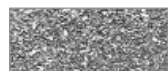
TECHNICAL DATA

PRODUCT	FLOW RESISTANCE, °C	MAXIMUM TENSILE FORCE L/T, N/50 mm	RESISTANCE TO TEARING, N	ELONGATION, %	REINFORCEMENT TYPE / WEIGHT
TECHNOELAST APP EKP	≥120	970±290 690±207	-	50±25 50±25	polyester, 250 g/m ²

LOGISTIC DATA

PRODUCT	WEIGHT, kg/m ²	THICKNESS, mm	LENGTH, m	WIDTH, m	ROLLS PER PALLET
TECHNOELAST APP EKP	5.1-0.2	4.0±0.2	8	1	23

AVAILABLE COLOURS

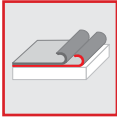


MIDA TROPIK C 2000

-5°C



Designed for installation as the bottom layer in two layer roofing system on buildings and constructions, for waterproofing of engineering structures and for vapour barrier. Can be used on new construction or repair. Not recommended to use as single ply waterproofing.



CLASS E

Loose laid, torched in overlaps.

TECHNICAL DATA

PRODUCT	FLOW RESISTANCE, °C	MAXIMUM TENSILE FORCE L/T, N/50 mm	RESISTANCE TO TEARING, N	ELONGATION, %	REINFORCEMENT TYPE / WEIGHT
MIDA TROPIK C 2000	≥110	300±100 200±100	50 ±10 50 ±10	6.0±4.0 6.0±4.0	glass-fiber, 55 g/m ²

LOGISTIC DATA

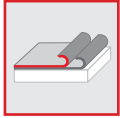
PRODUCT	WEIGHT, kg/m ²	THICKNESS, mm	LENGTH, m	WIDTH, m	ROLLS PER PALLET
MIDA TROPIK C 2000	2.0±0.1	-	15	1	25

MIDA TROPIK P40M

-5°C



Designed for installation as the top layer in two layer roofing system on buildings and constructions. Can be used on new construction or repair. Not recommended to use as single ply waterproofing.



CLASS E



Torch-on application to the prepared surface.

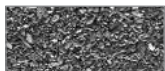
TECHNICAL DATA

PRODUCT	FLOW RESISTANCE, °C	MAXIMUM TENSILE FORCE L/T, N/50 mm	RESISTANCE TO TEARING, N	ELONGATION, %	REINFORCEMENT TYPE / WEIGHT
MIDA TROPIK P40M	≥110	600±100 400±100	180±50 180±50	30±10 30±10	polyester, 160 g/m ²

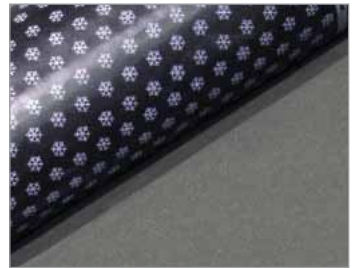
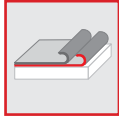
LOGISTIC DATA

PRODUCT	WEIGHT, kg/m ²	THICKNESS, mm	LENGTH, m	WIDTH, m	ROLLS PER PALLET
MIDA TROPIK P40M	4.4±0.2	-	10	1	23

AVAILABLE COLOURS



Designed for installation as the bottom layer in two layer roofing system on buildings and constructions, for waterproofing of engineering structures and for vapour barrier. Can be used on new construction or repair. Not recommended to use as single ply waterproofing. Do not use on the base of mineral wool.



Torch-on application to the prepared surface. When used as vapour barrier can be loose laid and torched in overlaps.

TECHNICAL DATA

PRODUCT	FLOW RESISTANCE, °C	MAXIMUM TENSILE FORCE L/T, N/50 mm	RESISTANCE TO TEARING, N	ELONGATION, %	REINFORCEMENT TYPE / WEIGHT
PRIMA PLAST GV 4.0	≥130	400±150 300±150	50±10 50±10	6.0±4.0 6.0±4.0	glass-fiber, 55 g/m ²
PRIMA PLAST NEW V 3.0	≥120	400±150 300±150	50±10 50±10	5.0±2.0 5.0±2.0	glass-fiber, 55 g/m ²

LOGISTIC DATA

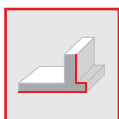
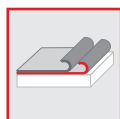
PRODUCT	WEIGHT, kg/m ²	THICKNESS, mm	LENGTH, m	WIDTH, m	ROLLS PER PALLET
PRIMA PLAST GV 4.0	4.0±0.20	-	10	1	23
PRIMA PLAST NEW V 3.0	3.0±0.15	-	10	1	25

PRIMA PLAST NEW P4

-5°C



Designed for installation as the bottom layer in two layer roofing system on buildings and constructions, for waterproofing of engineering structures. Can be used on new construction or repair. Can be used as two-layer waterproofing for the foundations (according to EN 13969). Not recommended to use as single ply waterproofing.



CLASS E

Torch-on application to the prepared surface. Can be fastened mechanically.

TECHNICAL DATA

PRODUCT	FLOW RESISTANCE, °C	MAXIMUM TENSILE FORCE L/T, N/50 mm	RESISTANCE TO TEARING, N	ELONGATION, %	REINFORCEMENT TYPE / WEIGHT
PRIMA PLAST NEW P4	≥120	540±150 450±150	180±50 180±50	30±10 30±10	polyester, 160 g/m ²

LOGISTIC DATA

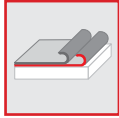
PRODUCT	WEIGHT, kg/m ²	THICKNESS, mm	LENGTH, m	WIDTH, m	ROLLS PER PALLET
PRIMA PLAST NEW P4	4.0±0.2	-	10	1	23

PRIMA PLAST PV 5.0 kg

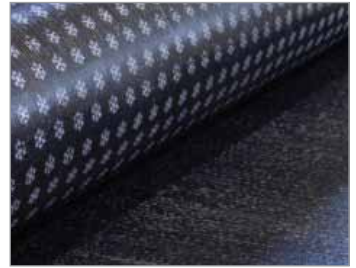
0°C



Designed for installation as the bottom layer in two layer roofing system on buildings and constructions. Can be used on new construction or repair. Not recommended to use as single ply waterproofing.



CLASS E



Torch-on application to the prepared surface.

TECHNICAL DATA

PRODUCT	FLOW RESISTANCE, °C	MAXIMUM TENSILE FORCE L/T, N/50 mm	RESISTANCE TO TEARING, N	ELONGATION, %	REINFORCEMENT TYPE / WEIGHT
PRIMA PLAST PV 5.0 kg	≥130	600±150 400±150	180±50 180±50	30±10 30±10	polyester, 160 g/m ²

LOGISTIC DATA

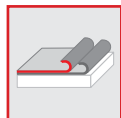
PRODUCT	WEIGHT, kg/m ²	THICKNESS, mm	LENGTH, m	WIDTH, m	ROLLS PER PALLET
PRIMA PLAST PV 5.0 kg	5.0±0.20	-	10	1	23

PRIMA PLAST PV 5.0 kg MINERAL

0°C



Designed for installation as the top layer in two layer roofing system on buildings and constructions. Can be used on new construction or repair. Not recommended to use as single ply waterproofing.



CLASS E



Torch-on application to the prepared surface.

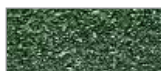
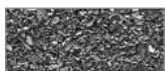
TECHNICAL DATA

PRODUCT	FLOW RESISTANCE, °C	MAXIMUM TENSILE FORCE L/T, N/50 mm	RESISTANCE TO TEARING, N	ELONGATION, %	REINFORCEMENT TYPE / WEIGHT
PRIMA PLAST PV 5.0 kg MINERAL	≥130	600±150 400±150	180±50 180±50	30±10 30±10	polyester, 160 g/m ²

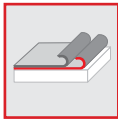
LOGISTIC DATA

PRODUCT	WEIGHT, kg/m ²	THICKNESS, mm	LENGTH, m	WIDTH, m	ROLLS PER PALLET
PRIMA PLAST PV 5.0 kg MINERAL	5.0±0.2	-	10	1	23

AVAILABLE COLOURS



Designed for installation as the bottom layer in two layer roofing system on buildings and constructions, for waterproofing of engineering structures and for vapour barrier. Can be used on new construction or repair. Can be used as underlay for bitumen shingles. Not recommended to use as single ply waterproofing.



Fastened mechanically at use as the bottom layer of roofing and as underlayer for bitumen shingles. At use as a vapour barrier is placed freely, welded in the overlaps. *ECOFLEKS V 3.0 kg - Torch-on application to the prepared surface.

TECHNICAL DATA

PRODUCT	FLOW RESISTANCE, °C	MAXIMUM TENSILE FORCE L/T, N/50 mm	RESISTANCE TO TEARING, N	ELONGATION, %	REINFORCEMENT TYPE / WEIGHT
ECOFLEKS V 2.0 kg	≥100	400±150 300±150	50±10 50±10	4.0±2.0 4.0±2.0	glass-fiber, 55 g/m ²
ECOFLEKS V 2.6 kg	≥100	400±150 300±150	50±10 50±10	4.0±2.0 4.0±2.0	glass-fiber, 55 g/m ²
ECOFLEKS V 3.0 kg	≥100	400±150 300±150	50±10 50±10	4.0±2.0 4.0±2.0	glass-fiber, 55 g/m ²

LOGISTIC DATA

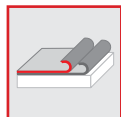
PRODUCT	WEIGHT, kg/m ²	THICKNESS, mm	LENGTH, m	WIDTH, m	ROLLS PER PALLET
ECOFLEKS V 2.0 kg	2.0±0.20	-	15/16	1	25
ECOFLEKS V 2.6 kg	2.6±0.20	-	15/16	1	23
ECOFLEKS V 3.0 kg	3.0±0.20	-	10	1	23

ECOFLEKS V / PV 4.5 kg MINERAL

0°C



Designed for installation as the top layer in two layer roofing system on buildings and constructions. Can be used on new construction or repair. Suitable for local repair. Not recommended to use as single ply waterproofing.



CLASS E

Torch-on application to the prepared surface.

TECHNICAL DATA

PRODUCT	FLOW RESISTANCE, °C	MAXIMUM TENSILE FORCE L/T, N/50 mm	RESISTANCE TO TEARING, N	ELONGATION, %	REINFORCEMENT TYPE / WEIGHT
ECOFLEKS V 4.5 kg MINERAL	≥100	400±150 300±150	50±10 50±10	4.0±2.0 4.0±2.0	glass-fiber, 55 g/m ²
ECOFLEKS PV 4.5 kg MINERAL	≥100	600±150 450±150	180±50 180±50	35±10 35±10	polyester, 140 g/m ²

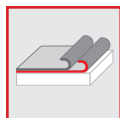
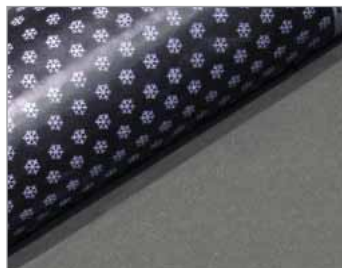
LOGISTIC DATA

PRODUCT	WEIGHT, kg/m ²	THICKNESS, mm	LENGTH, m	WIDTH, m	ROLLS PER PALLET
ECOFLEKS V 4.5 kg MINERAL	4.5±0.2	-	8/10	1	23
ECOFLEKS PV 4.5 kg MINERAL	4.5±0.2	-	8/10	1	23

AVAILABLE COLOURS



Designed for installation as the bottom layer in two layer roofing system on buildings and constructions, for waterproofing of engineering structures. Can be used on new construction or repair. Not recommended to use as single ply waterproofing.



Torch-on application to the prepared surface.

TECHNICAL DATA

PRODUCT	FLOW RESISTANCE, °C	MAXIMUM TENSILE FORCE L/T, N/50 mm	RESISTANCE TO TEARING, N	ELONGATION, %	REINFORCEMENT TYPE / WEIGHT
ECOFLEKS PV 2.6 kg UNDERLAY	≥100	600±150 450±150	180±50 180±50	35±10 35±10	polyester, 140 g/m ²
ECOFLEKS PV 4.5 kg UNDERLAY	≥100	600±150 450±150	180±50 180±50	35±10 35±10	polyester, 140 g/m ²

LOGISTIC DATA

PRODUCT	WEIGHT, kg/m ²	THICKNESS, mm	LENGTH, m	WIDTH, m	ROLLS PER PALLET
ECOFLEKS PV 2.6 kg UNDERLAY	2.6±0.2	-	15/16	1	25
ECOFLEKS PV 4.5 kg UNDERLAY	4.5±0.1	-	8/10	1	23



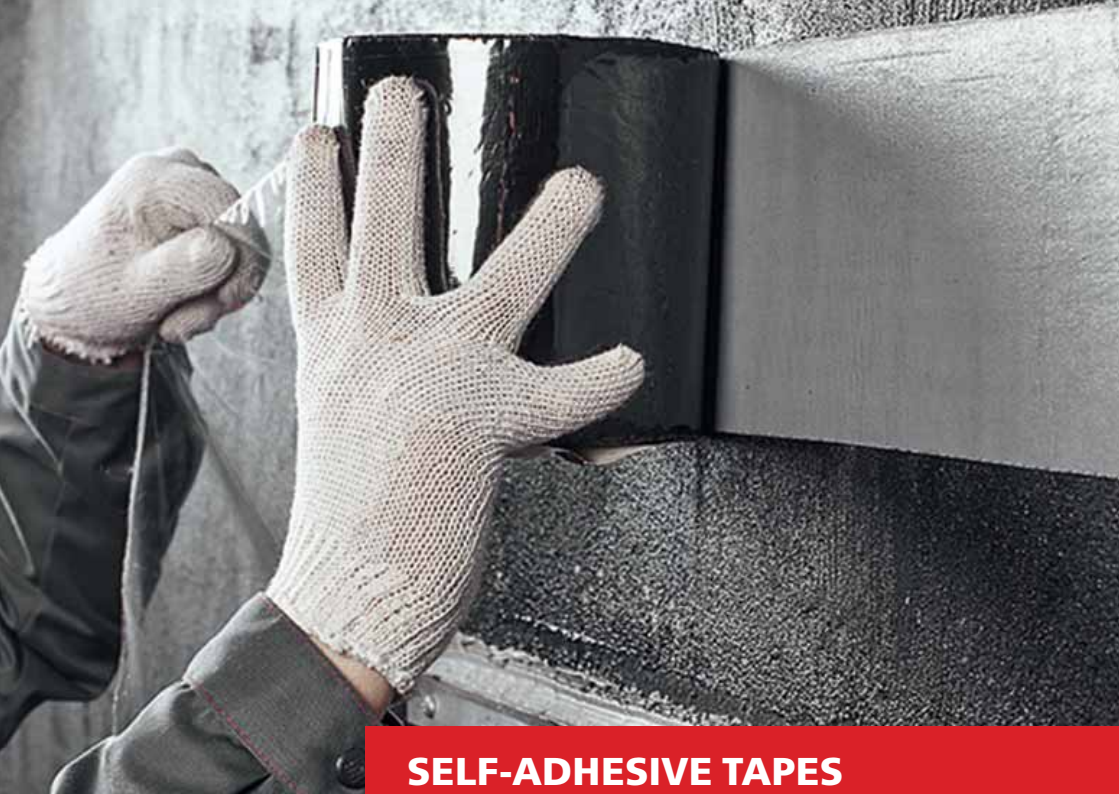
Tallinn, Estonia
HILTON HOTEL



Klaipeda, Lithuania
KKKK - PASSANGERS AND CARGO TERMINAL



Liberec, the Czech Republic
AUTOSALON KUČERA



**SELF-ADHESIVE TAPES
AND SEALANTS**

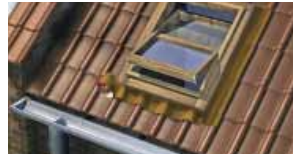
APPLICATION AREAS:

Sealing and waterproofing.

DESCRIPTION:

NICOBAND is a universal self-adhesive sealing tape. It is produced by placing a coloured reinforced aluminum covering on a waterproof self-adhesive bitumen layer. The protective film on the adhesive bitumen layer is easily removable.

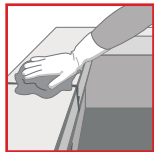
- The material is simple and convenient to use, and it bonds ideally to concrete, gypsum, metal, bitumen, stone, wood and other surfaces.
- The sealing tape is designed for sealing seams and joints, repairing cracks, waterproofing, and corrosion protection.



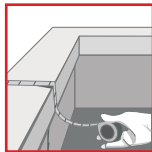
APPLICATION METHOD:

The surface must be clean, dry, and free from rust and dust.

For a better and more durable bond a priming of the base is recommended. The surface and material temperature must be at least +5 °C. At lower temperatures it is necessary to heat the adhesive side of the material and the base. It is not recommended to apply a tape to hot vertical surfaces (with a temperature above +85 °C).



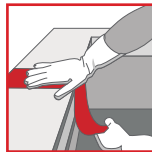
**CLEAN AND
DEGREASE**



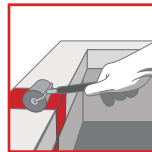
**MEASURE
AND CUT**



**REMOVE
THE FILM**



LAY THE TAPE



PRESS

■ APPLICATION AREAS:

Sealing seams, cracks and joints.

■ DESCRIPTION:

NICOBAND DUO is a double-sided self-adhesive polymer-bitumen tape for sealing hidden seams and joints, for temporary fastening or for the simultaneous fixation and sealing of small elements.

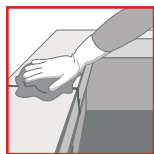
NICOBAND DUO consists of a polymer-bitumen layer of a special composition that provides good adhesion to virtually any surface. On both sides it is protected by polymer films, which are easily removable.

- The material is simple and convenient to apply.
- Possesses excellent adhesion to metal, concrete, plastic, asphalt, wood, glass, etc.

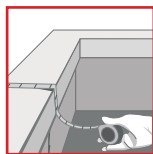


■ APPLICATION METHOD:

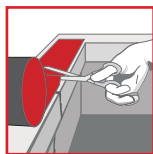
The surface must be clean, dry, and free from rust and dust. For a better and more durable bond a priming of the base is recommended. The surface and material temperature must be at least +5 °C. At lower temperatures it is necessary to heat the adhesive side of the material and the base. It is not recommended to apply a tape to hot vertical surfaces (with a temperature above +85 °C).



**CLEAN AND
DEGREASE**



MEASURE



CUT



**STICK TO THE
1 SURFACE**



**PRESS THE
2 SURFACE**

APPLICATION AREAS:

The material is intended for indoor use. Suitable for:

- Sealing joints in the ventilation system (ducts, floors flexible ducts).
- Sealing of various pipes in cold areas.
- The product adjacencies to the walls and other protruding parts.
- Waterproofing of floors of the bathrooms and kitchens without the use of protective cement sand screed. Ceramic tiles can be glued on directly.
- Can be used where the material will be protected from the effects of UV-rays:
- Waterproofing of masonry and wood constructions.
- Waterproofing of seams of thermal insulation.

DESCRIPTION:

NICOBAND INSIDE is a self-adhesive sealing and waterproofing polymer-bitumen tape.

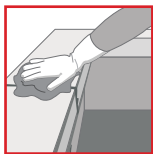
Produced by one-sided application of self-adhesive bitumen-polymer binder consisting of bitumen, SIS (styrene-isoprene-styrene) polymer modifiers and special adhesive additives on to siliconized film. Non-woven polypropylene (Spunbond) is used as a protective layer on the top side.



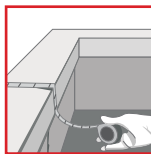
APPLICATION METHOD:

The surface must be clean, dry, and free from rust and dust.

For a better and more durable bond a priming of the base is recommended. The surface and material temperature must be at least +5 °C. At lower temperatures it is necessary to heat the adhesive side of the material and the base. It is not recommended to apply a tape to hot vertical surfaces (with a temperature above +85 °C).



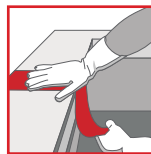
**CLEAN AND
DEGREASE**



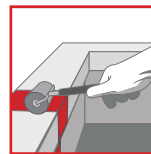
**MEASURE
AND CUT**



**REMOVE
THE FILM**



LAY THE TAPE



PRESS

BASIC DIMENSIONS

WIDTH, CM	5	7.5	10	15	20	30
LENGTH 3 M	•	•	•	•		
LENGTH 10 M		•	•	•	•	•

LOGISTIC DATA

DIMENSIONS, mm	PACKAGE SIZE, mm	QUANTITY IN PACKAGE	WEIGHT OF PACKAGE, kg	QUANTITY PER PALLET	PALLET WEIGHT, kg
3000 x 50	box 240 x 240 x 320	24	5.9	480	148
3000 x 75	box 240 x 240 x 320	16	5.9	320	148
3000 x 100	box 240 x 240 x 320	12	5.9	720	384
3000 x 150	box 240 x 240 x 320	8	5.9	480	384
10000 x 75	box 180 x 180 x 320	4	5	120	180
10000 x 100	box 180 x 180 x 320	3	5	270	480
10000 x 150	box 180 x 180 x 320	2	5	180	480
10000 x 200	box 180 x 180 x 320	1	3.5	90	345
10000 x 300	box 180 x 180 x 320	1	5	90	480



Radom, Poland

APLISENS PLANT FOR THE PRODUCTION OF TEST EQUIPMENT



Klaipeda, Lithuania

KLAIPEDA SMELTE - PASSENGERS AND CARGO TERMINAL



Rīga, Latvia

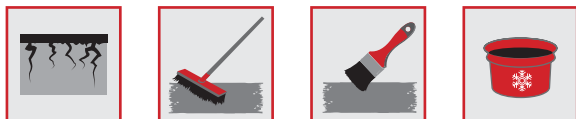
OLYMPIC SPORTS CENTER



PRIMERS AND MASTIC

BITUMEN PRIMER №01

Preparation (prime coating) of surface before installation of torch-on or self-adhesive roofing and waterproofing materials.



BITUMEN PRIMER №01 is recommended to be applied to a processed surface by large or small brush. Ready for use primer is applied to the base at once, which offers additional convenience and enhanced performance. It has an enhanced dampening ability, penetrability and short drying time. Surface coverage: 0.25-0.35 l/m².

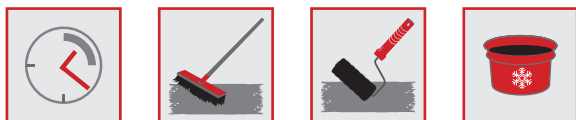


NON-VOLATILE SUBSTANCES, %	DRYING TIME AT 20°C	RELATIVE VISCOSITY, s	SOFTENING POINT, °C	TYPE OF PACKING, VOLUME	PACKAGE WEIGHT, kg
30-40	12 h	10-30	+80	bucket, 10 / 20 l	8 / 16

BITUMEN PRIMER №03

BITUMEN PRIMER №03 is used for processing the surfaces of bridge framework, prime-coating of cement, concrete and other surfaces before installation of torch-on, self-adhesive waterproofing materials.

The material has a short drying time and protects the metal surface against corrosion.



The primer is applied by using large and small brush, rollers or an airless spraying unit. Surface coverage: 0.20-0.30 l/m².



NON-VOLATILE SUBSTANCES, %	DRYING TIME AT 20°C	RELATIVE VISCOSITY, s	SOFTENING POINT, °C	TYPE OF PACKING, VOLUME	PACKAGE WEIGHT, kg
25-30	5 min	10-30	-	bucket, 20 l	16

BITUMEN PRIMER №04

Preparation (prime coating) of surface before installation of torch-on or self-adhesive roofing and waterproofing materials.



BITUMEN PRIMER №04 does not contain solvents, it has a neutral smell and is perfect for indoor works. It is produced on the basis of bitumen dispersion in water. Application temperature - from +5°C to +40°C. Dilute with water if necessary. Surface coverage: 0.25-0.35 l/m².



NON-VOLATILE SUBSTANCES, %	DRYING TIME AT 20°C	RELATIVE VISCOSITY, s	SOFTENING POINT, °C	TYPE OF PACKING, VOLUME	PACKAGE WEIGHT, kg
30-40	12 h	10-30	+80	bucket, 10 / 20 l	8 / 16

■ STORAGE

Store in dry place protected against sunlight at temperatures:

- BITUMEN PRIMER №01 and №01 from -20°C to +30°C.
- BITUMEN PRIMER №04 not less than +5°C.

Shelf life 12 months.