

PRODUCT CATALOGUE  
PROFESSIONAL BUILDING PRODUCTS  
2018

# ROOFS

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# ROOFS

- Selena offers solutions for all types of roofs
- We improve work standards for contractors – thanks to our products their work becomes better, faster and easier.
- Our innovative solutions create new trends in the sustainable construction

## Waterproofing is one of the primary tasks of construction

Selena is one of the few companies in the world with such a wide range of its own technologies. This allows us to provide waterproofing solutions for any type of roof, regardless whether they are the sloped roofs or the flat roofs.

We offer products of various roof covers including bituminous, metal sheet, ceramic or concrete ones.



Thanks to our versatility we support individual, residential and investment construction projects, our technologies can be used on both new and renovated roofs by the users of a varying degree of competence.

Our global experience enables us to meet the diverse demands of our investors and contactors, and primarily, to provide customized solutions adjusted to various geographical locations and local technology standards.

## What are our distinctive features?

In waterproofing, as in other areas, Selena strives for improvement of work standards for contractors. We search for faster, easier and more convenient application formulas while keeping high technical standards of our products. We always look to substitute traditional methods with new, better solutions such as: spraying application, applications which do not require the use of open flame or mechanical fixing.

We create state of the art, innovative solutions for sustainable construction. We optimize the energy efficiency of buildings, develop green spaces in urban areas and eliminate thermal bridges.

Selena is the first company in the world to develop a revolutionary COOL-R system which combines cooling and waterproofing properties in a single product solution.



# FLAT ROOFS

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## Flat roof

Flat roof or a low-pitch roof performs two functions – of the roof cover and at the same time of the ceiling over the top floor of a building. Flat roofs can be divided into two categories: usable roofs and non-usable roofs. The usable roofs serve as external decks or green spaces, gardens or car parks.



## Flat roofing structure

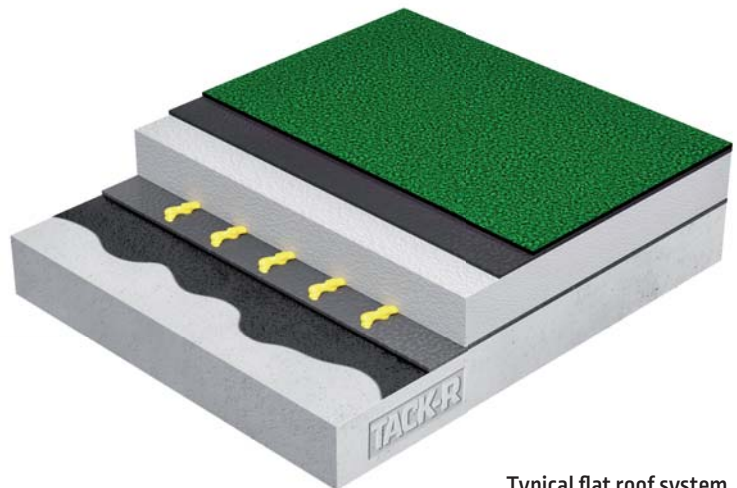
Flat roofs are multi-layered structures where each layer performs a different function. The biggest challenge is the proper rendering of the roof's waterproofing which is the key element of every flat roof.

To ensure the run-off of rain water, the flat roof should be pitched at an angle of up to 2%. The inclination can be directed towards the edge of the roof allowing water to flow down or towards the middle from where it is drained by special drainage system.

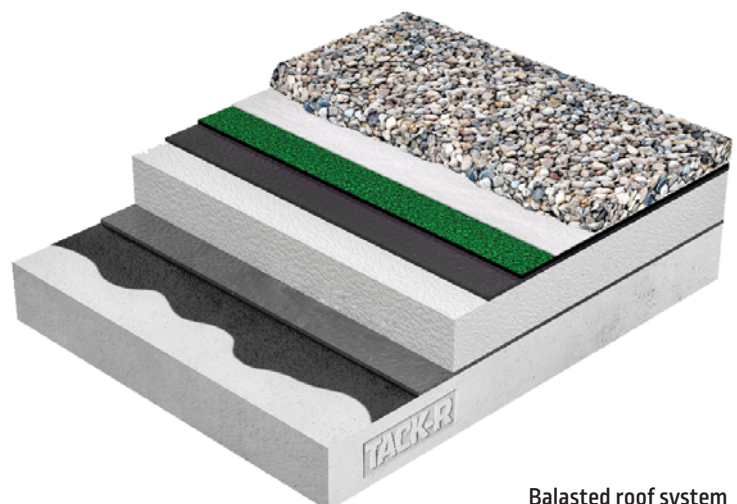
Flat roofs are laid in the following way: a supporting surface (for example a reinforced concrete ceiling) is coated with the bituminous priming layer, next a vapour-proof layer is laid which forms a moisture resistant base for another layer, namely, the thermal insulation. Finally, the proper waterproofing top layer is laid which makes the whole surface water tight.

This structure of the flat roof provides easy access to the waterproofing layer and facilitates the monitoring of its tightness, the fixing of defects and maintenance works.

When additional protection of the waterproofing layer against mechanical damage or harmful weather is needed, this traditional layout can be secured by an extra layer of ballast which is laid on the special protective covering fabric.



Typical flat roof system



Balasted roof system

## Inverted flat roofs

When the flat roof is utilized as, for example, green roof, the sequence of layers can be inverted. This allows us to reduce the total thickness of the cover by applying thinner thermal insulation layer. It also protects the waterproofing layer against possible damage. The type of top layer of the inverted roof is chosen accordingly to the roof's intended usage.

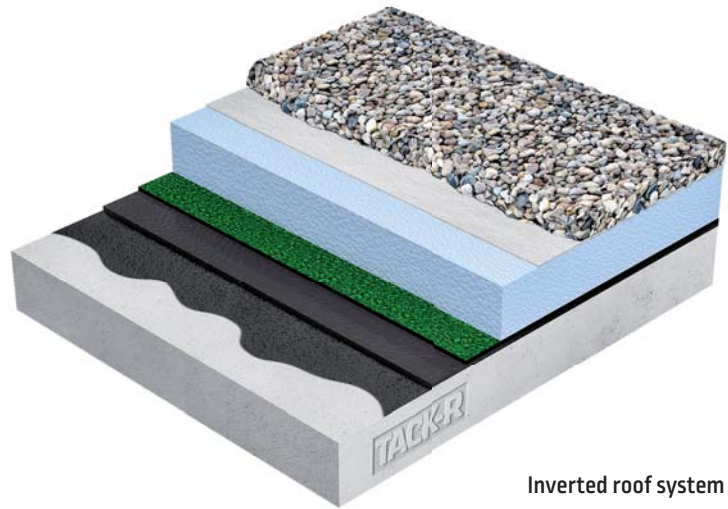
For the inverted green planted roof, the thermal insulation layers are placed directly on the primed substrate and secured with special protective covering fabric. It is necessary to add the ballast so as to protect the thermal insulation from being blown off the roof.

Each layer of the flat roof can be fitted using various techniques.

**Mechanical fitting** which employs special connectors.

**Adherent or self-adhesive roofs** – do not require mechanical fitting as each layer is bonded with the use of an adhesive or a self-adhesive membrane.

**Torch on roof** – torching on is based on melting the waterproofing layer onto the whole surface of the bituminous membranes.



Inverted roof system



Green roof system

## Finishes and flashings

The water tightness of flat roofs depends not only on properly performed waterproofing but also on the proper treatment of attics, firewalls, and all the elements that break the continuity of the roof cover, such as roof lights, chimneys or steel substructures.

Owing to its structure, the flat roof is exposed to the accumulation of snow or to water stagnations. This is why proper workmanship and the application of systemic solution is so vital.





Cooling



Waterproofing



Reflection



Non spreading fire



Durability

**SRI = 107 Solar Reflectance Index**

## COOL-R System

One of the main effects of solar radiation is heating up of the exposed surfaces. For the construction element in question here – the roof – these effects may be positive and can be used to our advantage by installing solar and photovoltaic cells. Unfortunately, the negative effects of solar radiation have to be dealt with more frequency, especially, those resulting from an exposure to infrared radiation which causes overheating of the roofs and as a consequence-temperature rise in the interior of the buildings.

Another negative effect of the UV radiation and roof overheating is the fast ageing of the roof covering. The life of practically every type of roof coating in large-scaled buildings is determined by its resistance to solar radiation and their lifespan is max. 10–15 years.

**COOL-R reduces  
the roof temperature by 70%,  
and inside the building  
- up to 10°C**

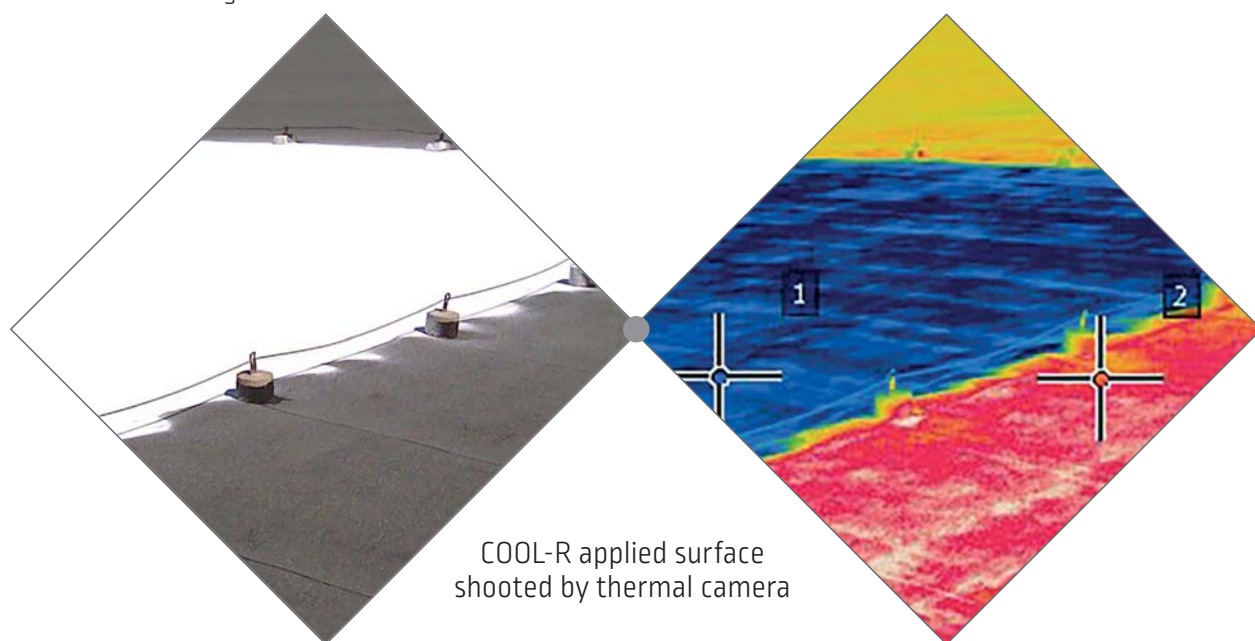
Every building should provide an optimal thermal comfort for its users. The most common way to reduce the temperature in the premises is by installing cooling units. However, this leads to lower energy-efficiency of the building and increases the maintenance costs as the power demand for cooling grows. In many cases air-conditioning systems are not able to cope with increasingly frequent extreme temperatures, which negatively impacts the thermal comfort of people in the premises. The application of COOL-R enhances the life expectancy of both the roof membrane and the building's cooling equipment.

COOL-R is a highly-reflective roof coating which ensures the joined benefits of reduced temperature inside the building and the perfect waterproofing coating of the roof surface.

Thanks to the applied technology, the COOL-R coating is characterized by a high SRI (Solar Reflectance Index = 107), which means that the coating not only reflects sunlight (as much as 86% of sun rays on the coating are reflected), but also releases most of the absorbed or non-reflected heat (0,85), reducing the temperature on the roof and under its surface. Thanks to COOL-R, the roof temperature is reduced by as much as 70%, and by as much as 10°C inside the premises.



COOL-R technology is a unique solution that was designed not only to reduce the roof temperature but also to protect it against all the consequences of ageing and water penetration. COOL-R provides permanent waterproofing coating of the roof, protecting it against negative impact of water, without adding excessive load on its structure. Application of the COOL-R coating enhances the roof's life expectancy and the resistance of the roof cover to weather conditions such as temperature fluctuations as well as to mechanical damage.



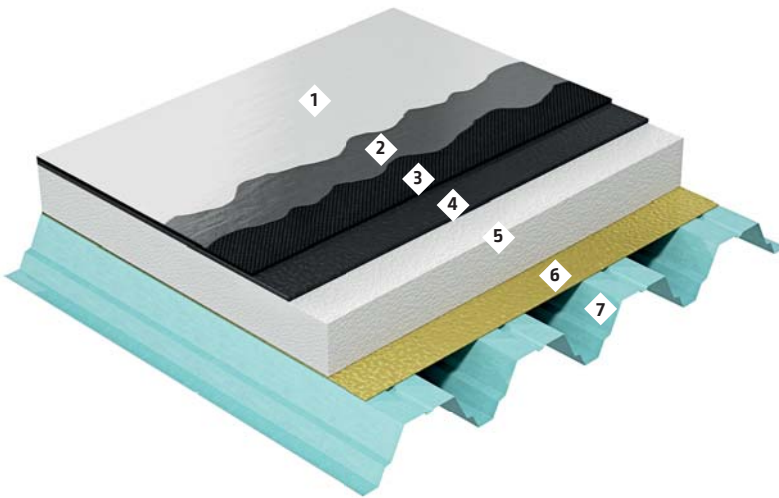
COOL-R applied surface  
shooting by thermal camera





## COOL-R System Highly Reflective Waterproofing Coating

COOL-R is a highly reflective roof coating that combines the benefits of temperature reduction inside the building and providing an excellent waterproof membrane in a form of roof surface. Thanks to the technology applied, the COOL-R coating has a very high SRI number (Solar Reflectance Index = 107) and high waterproofing parameters. With the use of COOL-R roof the temperature shall be reduced even by up to 70%, and inside the building – up to 10°C.



### SYSTEM ELEMENTS:

1. COOL-R white (0,9 kg/m<sup>2</sup>)
2. COOL-R grey (0,9 kg/m<sup>2</sup>)
3. Top layer membrane COOL-R FIX S50
4. Underlay membrane Tack-R FIX20 S27
5. Thermal insulation EPS 100
6. Vapour barrier
7. Metal sheet

### APPLICATIONS:

- Flat roofs made of metal and concrete substrates covered with bituminous/ PVC membranes
- Renovation of roofs
- Halls, production plants, logistics centres, shopping centres

### BENEFITS:

- Elimination of the problem of roof overheating
- Protection of roof covering against the adverse effects of solar radiation
- High-performance, jointless waterproof membrane
- No excess load on roof framework

### TECHNICAL PARAMETERS:

- SRI (Solar Reflectance Index): 107

Parameter	COOL-R Underlay grey	COOL-R Top layer white
Consistency	Semi-liquid paste	Semi-liquid paste
Resistance to rain [h]	1,5	1,5
Curing time of first layer [h]	2,0	2,0
Curing time of coating [h]		24

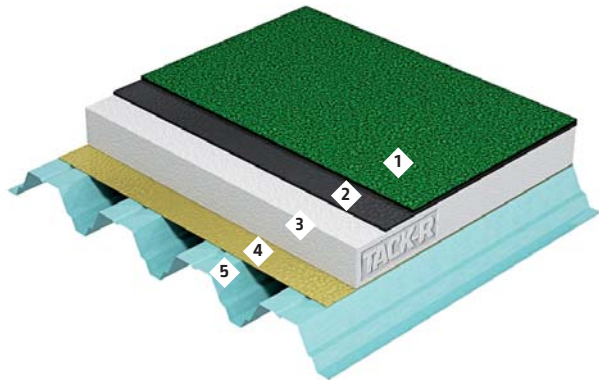
- As supplied – tested at +23°C and 50% relative humidity

Parameter	COOL-R coating*
Elongation at break [%]	450
Elasticity at low temperatures [°C]	-35
Water tightness [kPa]	200
Resistance to external fire	B <sub>Roof(t)</sub> *
Weight burden to 1 m <sup>2</sup> of roof [kg]	1,42

\* As cured - tested after 4 weeks at +23°C and 50% relative humidity.

Product name	Content	Packaging	Pieces per pallet
COOL-R	15 kg	Plastic pail	44

## Tack-R Mechanically Fixed Roof System



A classic solution in the system of flat roofs based on steel and concrete structures. This system does not put too much load on the roof structure and its components may be assembled in difficult weather conditions.

### SYSTEM ELEMENTS:

1. Bituminous top membrane Tack-R TT20 S40
2. Bituminous undercoat membrane Tack-R FIX20 S27
3. Thermal insulation
4. PE vapour-proof membrane
5. Metal sheet

### APPLICATIONS:

- Application on steel and concrete structures
- Enclosed structures, residential buildings, commercial centres

### BENEFITS:

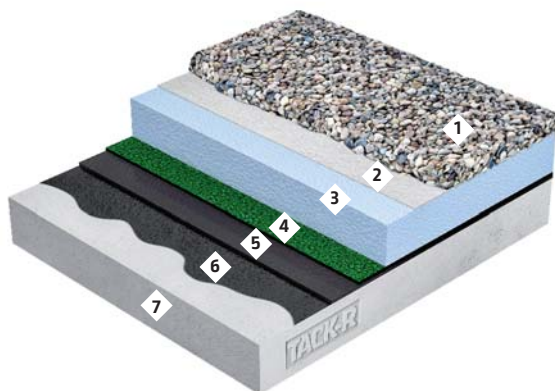
- Small load of structure (approx. 8,5 kg/m<sup>2\*</sup>)
- Applicable at negative temperatures (to -10°C)
- Fire retardance (BroofT1)

\* No thermal insulation needed.

### TECHNICAL PARAMETERS:

Product name	SBS-modified	Base material	Assembly	EN PL	Thickness	Length	Pallet quantity
Tack-R TT20 S40	SBS [-20]	Polyester	Torch-applied	13 707	4,0 mm	7,5 rm	150 m <sup>2</sup>
Tack-R FIX20 S27	SBS [-20]	Composite	Mech. fixed	13 707	2,7 mm	10,0 rm	240 m <sup>2</sup>
Tack-R ALU S30	SBS [-15]	Veil + Alu	Torch-applied	13 707	3,0 mm	10,0 rm	200 m <sup>2</sup>

## Tack-R Inverted Roof System



This system is dedicated for concrete structures. Specially recommended for investments in which the key issue is to maintain long life of waterproof membrane and provide protection against the harmful effects of external factors.

### SYSTEM ELEMENTS:

1. Ballast layer
2. Green Geo Tex 300 protective geotextile
3. XPS thermal insulation
4. Torch-on bituminous membrane Tack-R TT20 S40
5. Torch-on bituminous membrane Tack-R TU20 S30
6. Priming preparation
7. Steel-concrete ceiling

### APPLICATIONS:

- Concrete structures
- Residential buildings, commercial centres

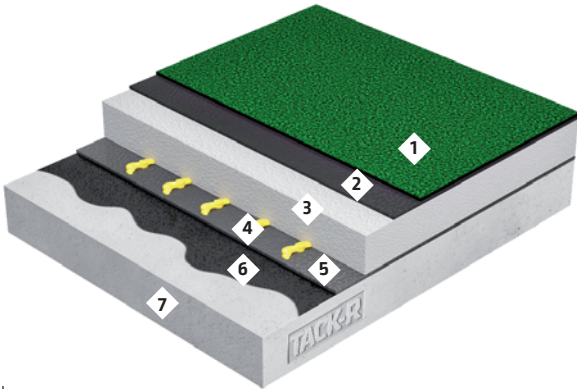
### BENEFITS:

- Extended lifespan of roof covering
- Protection of waterproof membrane against mechanical damages

### TECHNICAL PARAMETERS:

Product name	SBS-modified	Base material	Assembly	EN PL	Thickness	Length	Pallet quantity
Tack-R S ALU S26	SBS [-20]	Veil + Alu	Self-adhesive	13 707	2,6 mm	10,0 rm	240 m <sup>2</sup>
Tack-R ST25 S50	SBS [-25]	Polyester	Self-adhesive	13 707	5,0 mm	5,0 rm	120 m <sup>2</sup>
Tack-R SU20 S25	SBS [-20]	Glass fabric	Self-adhesive	13 707	2,5 mm	10,0 rm	240 m <sup>2</sup>
Tack-R TT20 S40	SBS [-20]	Polyester	Torch-applied	13 707	4,0 mm	7,5 rm	150 m <sup>2</sup>
Tack-R TU20 S30	SBS [-20]	Polyester	Torch-applied	13 707, 13 969	3,0 mm	10,0 rm	200 m <sup>2</sup>

## Tack-R Self-Adhesive Roof System



The innovative roof system that does not require mechanical fixing. This is the first solution in the market that uses both a double-sided self-adhesive underlay bituminous membrane and a self-adhesive bituminous top membrane. Foam adhesive KDT 12, dedicated for the system, allows fitting thermal insulation without the use of mechanical fasteners.

### SYSTEM ELEMENTS:

1. Self-adhesive bituminous membrane Tack-R ST25 S50
2. Self-adhesive bituminous membrane Tack-R SU20 S25
3. EPS 100 thermal insulation
4. KDT 12 polyurethane adhesive
5. Self-adhesive bituminous waterproof membrane Tack-R S ALU S26
6. Priming preparation
7. Steel-concrete ceiling

### APPLICATIONS:

- Concrete structures
- Residential buildings, commercial centres
- Objects with recommendations for the installation of waterproof membrane without affecting the supporting structure of the roof

### BENEFITS:

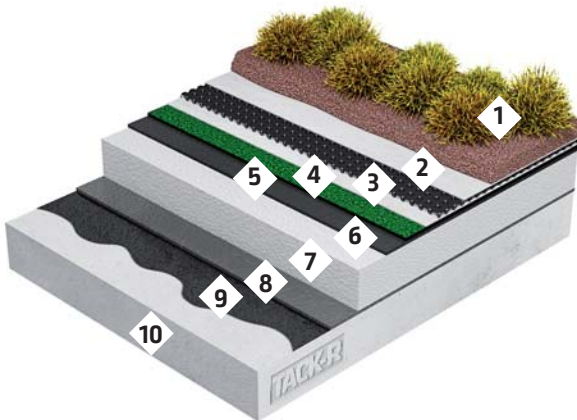
- Total omission of mechanical fixing
- Significant reduction of the need to work with naked flame
- Shortening of the application time

### TECHNICAL PARAMETERS:

Product name	SBS-modified	Base material	Assembly	EN PL	Thickness	Length	Pallet quantity
Tack-R ST25 S50	SBS (-25)	Polyester	Self-adhesive	13 707	5,0 mm	5,0 rm	120 m <sup>2</sup>
Tack-R SU20 S25	SBS (-20)	Glass fabric	Self-adhesive	13 707	2,5 mm	10,0 rm	240 m <sup>2</sup>
Tack-R S ALU S26	SBS (-20)	Veil + Alu	Self-adhesive	13 707	2,6 mm	10,0 rm	240 m <sup>2</sup>

## Tack-R Green Roofs System

Green Herba and Green Sedum are the modern systems of biologically active roofs that respond to the need for increasing greenery in urban areas. The roof covering is resistant to root ingress and designed to load the roof structure to a small extent.



### SYSTEM ELEMENTS:

1. Extensive/ intensive vegetation
2. Green ST Sedum/ Herba substrate
3. Green Filler 100 filtration geotextile
4. Green Drain drainage
5. Torch-on bituminous membrane Tack-R Green S40
6. Self-adhesive bituminous membrane Tack-R Fix20 S27
7. EPS 100 thermal insulation
8. Vapour-proof membrane Tack-R ALU S30
9. Priming preparation
10. Steel-concrete ceiling

### APPLICATIONS:

- Steel and concrete structures
- Residential buildings, commercial centres, logistics centres and warehouses

### BENEFITS:

- Resistance to root ingress (FLL certificate)
- Ability to apply intensive or extensive plants
- Low load of roof structure (from 120 kg/m<sup>2</sup> when fully soaked)
- Reduced noise level inside the premises

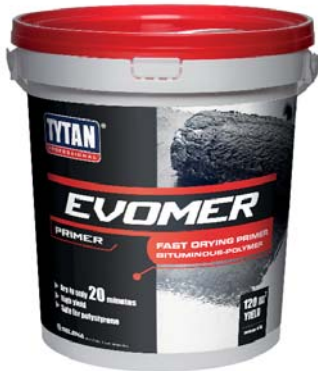
### TECHNICAL PARAMETERS:

Product name	SBS-modified	Base material	Assembly	EN PL	Thickness	Length	Pallet quantity
Tack-R Green S40	SBS (-20)	Polyester	Torch-applied	13 707, 13 969	4,0 mm	7,5 rm	150 pcs
Tack-R SU20 S25	SBS (-20)	Glass fabric	Self adhesive	13 707	2,5 mm	10,0 rm	240 m <sup>2</sup>
Tack-R S ALU S26	SBS (-20)	Veil + Alu	Self adhesive	13 707	2,6 mm	10,0 rm	240 pcs

Product name	Description	Parameters	Dimensions	Sales unit
GreenDrain	Drainage cumulative mat for systems of green roofs: Green Sedum and Green Herba	Retention – 6 l/m <sup>2</sup>	1,9 m x 20 m x 2 cm	Roll
GreenFiller 100	Drainage mat in green roof systems Green Sedum and Green Herba. Designed for road traffic and shared zones	Grammage – 100 g/m <sup>2</sup>	2 m x 50 m	Roll
GreenST Herba/ Sedum	Intense substrate intensive for Green Herba/ Green Sedum system	Weight – approx. 1 200 kg/m <sup>3</sup> Consumption – approx. 1,15	90 x 90 x 135	Pcs

## Evomer Fast Primer Fast Drying Bitumen-Polymer Primer

Evomer Fast Primer is an innovative bitumen-polymer fast drying solution dedicated for preparing the roof surface before installation of roofing and waterproofing materials. Due to polymerization technology, the primer has a perfect adhesion and ensures full surface stability. Evomer Fast Primer does not contain any organic solvents, so it is non-flammable and safe for both polystyrene and the environment.



### APPLICATIONS:

- Preparation of mineral, bitumen, wooden and steel surfaces prior to the installation of waterproof membranes

### BENEFITS:

- Drying time within 20 min only
- High yield
- Safe (non-flammable, no solvents)

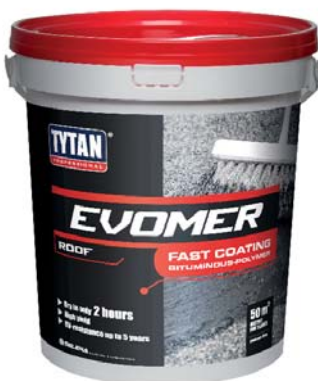
### TECHNICAL PARAMETERS:

- Consistency: liquid, homogeneous, without inclusions
- Drying temperature at +23°C/ 50% RH on concrete: 20 min
- Drying temperature +5°C/ 50% RH on concrete: 60 min
- Drying temperature +23°C/ 50% RH on non-absorbing surfaces (steel, roof felt): 30 min
- Application temperature: +5°C to +35°C
- Elasticity at low temperature (cold bending): -20°C
- Vertical flow resistance at increased temperature: +90°C

Product name	Content	Packaging	Pieces per pallet
Evomer Fast Primer	9 kg	Bucket	44
	18 kg	Bucket	27

## Evomer Fast Coating Fast Drying Bitumen-Polymer Coating

Evomer Fast Coating is an innovative fast drying bituminous-polymer solution for covering roof or foundation surfaces. Creates seamless, waterproof and elastic layer with increased UV resistance.



### APPLICATIONS:

- Refurbishment of bituminous coverings
- Light waterproofing on horizontal and vertical surfaces

### BENEFITS:

- Dry in only 2 h\*
- UV-resistance up to 5 years\*\*
- High quality coating

### TECHNICAL PARAMETERS:

- Consistency: dense, liquid homogenous, without inclusions
- Consumption: on average 0,35 kg/ layer
- Drying time at temperature +20°C/ 50% RH: 2 h
- Output from 18 kg pail: 50 m<sup>2</sup>
- Output of 9 kg bucket: 25 m<sup>2</sup>
- Application temperature: +5°C to +35°C
- Elasticity at low temperatures (cold bending): -20°C
- Vertical flow resistance at increased temperature: +90°C
- \*Durability: 5 years basing on ageing tests conducted under typical weather conditions

\* At the temperature +20°C and 50% relative air humidity.

\*\* Basing on ageing tests conducted for typical climate conditions, the real resistance may vary.

Product name	Content	Packaging	Pieces per pallet
Evomer Fast Coating	9 kg	Bucket	44
	18 kg	Bucket	27

# Evomer Fast Filler Fast Drying Bitumen-Polymer Roofing Filler

Evomer Fast Filler is a dense bitumen-polymer mastic. Created to fill damages and cracks in roof coverings. Can be also used for bonding of polystyrene boards.



**APPLICATIONS:**

- Filling in damages and cracks
- Spot repairs and sealing
- Fixing polystyrene boards

**BENEFITS:**

- Rain resistance in only 2 h
- Permanently elastic
- Safe (no solvents)

**TECHNICAL PARAMETERS:**

- Consistency: dense, homogeneous
- Density: 1,15–1,25 g/ml
- Consumption: 1,2 kg/m<sup>2</sup> at thickness 1 mm
- Application temperature: +5°C to +35°C
- Drying time: 2 mm per 24 h
- Rain resistance (+23°C/50% RH): after 2 h
- Elasticity at low temperatures (cold bending): -20°C
- Vertical flow resistance at increased temperature: +90°C
- Crack bridging: up to 2 mm

Product name	Content	Packaging	Pieces per pallet
Evomer Fast Filler	1 kg	Plastic bucket	324
	5 kg	Plastic bucket	76

## Fast renovation of flat roof

Roof coatings are particularly sensitive parts of buildings which are often exposed to the risk of leakage. When leakages occur, they should be fixed within shortest possible time to avoid further damage to the building's interior.

Time is a key element here for both the investor and the contractor.

EVOMER – is the new generation of polymer-bituminous compounds developed to ensure the shortest possible time of repairs. Evomer is solvent-free, which makes it safe in usage but also considerably shortens the drying time of each coat.

**Thanks to this the renovation of roof cover takes only 3 days.**

The EVOMER system contains primer, putty for filling cracks and voids, and Evomer top coating.

**Evomer strengths:**

- Safe for thermal insulation
- Easy application
- Non-flammable, solvent-free



# Abizol R

## Bitumen Primer

Abizol R is a bitumen compound slightly modified with synthetic rubber with special additives that allow use on slightly moist substrates.

### APPLICATIONS:

- Priming concrete substrates (e.g. foundations) before covering with hydrophobic coatings
- Priming under torch-applied roof membranes

### BENEFITS:

- Works even on slightly moisten surfaces
- Strongly bonds the substrate
- Resistant for weak acids and bases

### TECHNICAL PARAMETERS:

- Consistency: liquid
- Colour: black
- Application temperature: +5°C to +35°C
- Initial drying time: 6 h
- Curing time: 12 h
- Consumption: 0,2-0,3 kg/m<sup>2</sup> for 1 layer
- Number of layers: 2-3



\* Technical data and applying instruction are given for the temperature +23°C ± 2°C and humidity ca 60%. Lower temperature and higher humidity can make the curing time longer.

Product name	Content	Packaging	Pieces per pallet
Abizol R Bitumen Primer	9 kg	Bucket/ metal bucket	44/ 44
	18 kg	Bucket/ metal bucket	27/ 33

# Abizol H/RDR

## Deep Penetrating Primer

Abizol H/RDR is a deep-penetrating, solvent, bituminous primer for priming substrates to form a contact layer for bituminous waterproofing.

### APPLICATIONS:

- Priming concrete substrates
- Before covering with hydrophobic coatings
- Prime under torch-applied roof membranes

### BENEFITS:

- Short drying time
- Works even on slightly moisten surfaces
- Deeply penetrates the substrate
- Resistant for weak acids and bases

### TECHNICAL PARAMETERS:

- Consistency: liquid
- Colour: black
- Application temperature: +5°C to +35°C
- Curing time: 3 h
- Consumption: 0,2-0,3 kg/m<sup>2</sup> for 1 layer
- Number of layers: 1



\* Technical data and applying instruction are given for the temperature +23°C ± 2°C and humidity ca 60%. Lower temperature and higher humidity can make the curing time longer.

Product name	Content	Packaging	Pieces per pallet
Abizol H/RDR	4,5 kg	Metal bucket	96
	9 kg	Metal can	65
	18 kg	Metal bucket	33

## Abizol P/S

### Universal Waterproofing Compound

Cold-applicable bituminous compound modified with synthetic rubber and resins designed for jointless hydrophobic insulation (according to the norm EN 1928:2000) of roof coverings.

#### APPLICATIONS:

- Hydrophobic insulation coats made on bitumen roofs
- Preserving and renovation of bitumen coverings

#### BENEFITS:

- Create durable and resistant layer up to -20°C
- It can be used on slightly moisten surfaces
- Strongly bound to the substrate

#### TECHNICAL PARAMETERS:

- Consistency: half-liquid substance
- Colour: black
- Application temperature: +5°C to +35°C
- Initial drying time: 6 h
- Curing time: 12 h
- Consumption: 0,5–0,7 kg/m<sup>2</sup> for 1 layer
- Number of layers: 2–3 depending on application



\* Technical data and applying instruction are given for the temperature +23°C ± 2°C and humidity ca 60%. Lower temperature and higher humidity can make the curing time longer.

Product name	Content	Packaging	Pieces per pallet
Abizol P/S	9 kg	Bucket/ metal bucket	48/ 44
	18 kg	Bucket/ metal bucket	27/ 33

## Abizol G

### Bitumen Rubber Mastic

Abizol G Bitumen Rubber Mastic is a plastoelastic, dense bitumen mastic modified with synthetic rubber and reinforced with fibres. It is used for repairing bitumen rolls, old roof coverings, local sealing of anti-moisture coatings.

#### APPLICATIONS:

- Filling and repairing scratches, cracks and joints in old roof coverings
- Sealing the connections between metal, concrete and bitumen rolls

#### BENEFITS:

- Bonding roof felts while repairing
- Contains reinforcing fibers
- Works even on slightly moisten surfaces

#### TECHNICAL PARAMETERS:

- Consistency: dense thixotropic substance
- Colour: black
- Layer thickness:
  - repairs: 2–5 mm
  - jointless membranes: 2–3 mm
- Application temperature: +5°C to +35°C
- Initial drying time: 3–4 h
- Curing time: 3–4 days
- Consumption: ca 1,2 kg/m<sup>2</sup> for 1 mm of layer thickness
- Number of layers:
  - hydrophobic membranes: 2–3
  - sealing: Depending on needs



\* Technical data and applying instruction are given for the temperature +23°C ± 2°C and humidity ca 60%. Lower temperature and higher humidity can make the curing time longer.

Product name	Content	Packaging	Pieces per pallet
Abizol G	1 kg	Bucket/ metal bucket	324/ 378
	5 kg	Bucket/ metal bucket	80/ 96



## Abizol KL-DM Cold Applied Adhesive for Bitumen Rolls

Abizol KL DM is designated for cold bonding of bitumen rolls and for medium type of waterproof insulations, even on slightly moist surfaces. It creates membranes strongly bonded to the substrate and resistant to water.



### APPLICATIONS:

- Bonding the bitumen rolls to various substrates
- Bonding mineral wool in flat roof systems
- Creating medium type waterproof coating

### BENEFITS:

- Very good initial tack
- Excellent bonding properties
- Very good crack bridging up to 2 mm

### TECHNICAL PARAMETERS:

- Consistency: dense thixotropic substance
- Colour: dark brown
- Application temperature: +5°C to +35°C
- Layer thickness: up to 2 mm
- Drying time: 3–5 days
- Consumption:
  - punctually gluing: ca 1 kg/m<sup>2</sup>
  - hydrophobic insulation: 1,2 kg/m<sup>2</sup> for 1 mm of thickness
  - number of layers: min 2

\* Technical data and applying instruction are given for the temperature +23°C ± 2°C and humidity ca 60%. Lower temperature and higher humidity can make the curing time longer.

Product name	Content	Packaging	Pieces per pallet
Abizol KL-DM	9 kg	Bucket/ metal bucket	44/ 44
	18 kg	Bucket/ metal bucket	27/ 33

## Disprobit Dispersive Asphalt Compound

Disprobit is a dispersive asphalt compound modified with synthetic rubber. The coating creates a light waterproofing layer.



### APPLICATIONS:

- Renovation and maintenance of roof coverings made of roof felt
- Can be used as primer under bitumen compounds (1:2 water based compounds)

### BENEFITS:

- Works on dry and moisten surfaces
- Does not contain solvents

### TECHNICAL PARAMETERS:

- Consistency: thixotropic substance
- Colour: dark brown/ black
- Application temperature: +5°C to +30°C
- Priming:
  - dilution with water: 1:2
  - consumption: 0,2–0,3 kg/m<sup>2</sup>
- Insulation:
  - curing time for 1 layer: 6 h
  - consumption: 0,8–1,2 kg/m<sup>2</sup> for 1 layer
  - number of layers: 2–4 depending on application
  - tools cleaning: water, once cured organic solvent

Product name	Content	Packaging	Pieces per pallet
Disprobit	5 kg	Bucket	80
	10 kg	Bucket/ metal bucket	44/ 44
	20 kg	Bucket/ metal bucket	27/ 33

## Alubit Reflex Protective Roof Coating

Alubit Reflex is a silver colored, protective coating used for maintenance and preservation of bitumen and metal surfaces on both flat and slope roofs. It provides additional protection and prevents the development of corrosion of metal roof coverings and flashings.



### APPLICATIONS:

- Protecting roof coverings against aging and corrosion resulting from UV and weather
- Flat and slope roofs made of bituminous materials, steel, concrete and ceramic tiles and wood

### BENEFITS:

- Creates silver, reflective layer
- Prolongs durability of roof covering for 5 years
- Protects and prevents the development of rust

### TECHNICAL PARAMETERS:

- Consistency: liquid
- Colour: silver
- Application temperature: +5°C to +30°C
- Curing time: 4 h
- Consumption: 0,15–0,20 kg/m<sup>2</sup>
- Number of layers: 1

\* Technical data and applying instruction are given for the temperature +23°C ± 2°C and humidity ca 60%. Lower temperature and higher humidity can make the curing time longer.

Product name	Content	Packaging	Pieces per pallet
Alubit Reflex	5 kg	Metal can	96

## Tack-R Flashing Polymer-Bitumen Resin

Tack-R Flashing is a ready for use, moisture resistant, cold-applied, UV-resistant polymer-bitumen resin. It is suitable for sealing and repair of roof flashing, including corner overlaps, roof parapets and firewalls.



### APPLICATIONS:

- Preparing the flashings of flat roofs
- Roof materials: bitumen membrane, aluminum, galvanised and stainless steel, concrete, hard PVC and EPDM

### BENEFITS:

- Easy and fast finishing of roof flashings
- Perfect adhesion to different roofing materials

### TECHNICAL PARAMETERS:

- Colour: black
- Consistency: semi-fluid paste
- Density: 1,30–1,32 g/ml
- Skin-over time: 40–70 min
- Temperature resistance: -36°C to +80°C
- Elongation at rupture (T = +23°C): 150–170%
- Hardness Shore A: 30–32

Product name	Content	Packaging
Tack-R Flashing	1 kg	Metal can
	5 kg	Metal can

# Aqua Protect MS Elastic Coating & Sealant

Ready-to-use elastic coating based on MS technology, curing at ambient temperature with exposure to air humidity, destined for waterproofing and repairing of roofs.



**APPLICATIONS:**

- Waterproofing and protection of: flat and sloped roofs, gutters, terraces, connections on chimneys, skylights and ventilation outlets
- Applicable on:
  - most common materials used for building and insulating purposes
  - metals in general (copper, zinc, aluminium, stainless steel, etc.)
  - thermal insulation (polyurethane, polystyrene)
  - wood (agglomerated wood, plywood)
- Especially indicated for the repairing of leaks, connections between roofs, as well as joints between channellings and conducted works

**TECHNICAL PARAMETERS:**

- Appearance: thick liquid
- Efficiency: 1,5–3 kg/m<sup>2</sup>
- Drying time: 24 h/ 2 mm
- Elongation at break (ISO 37): 400%
- Application temperature: +5°C to +50°C
- Temperature resistance in operation: -40°C to +90°C

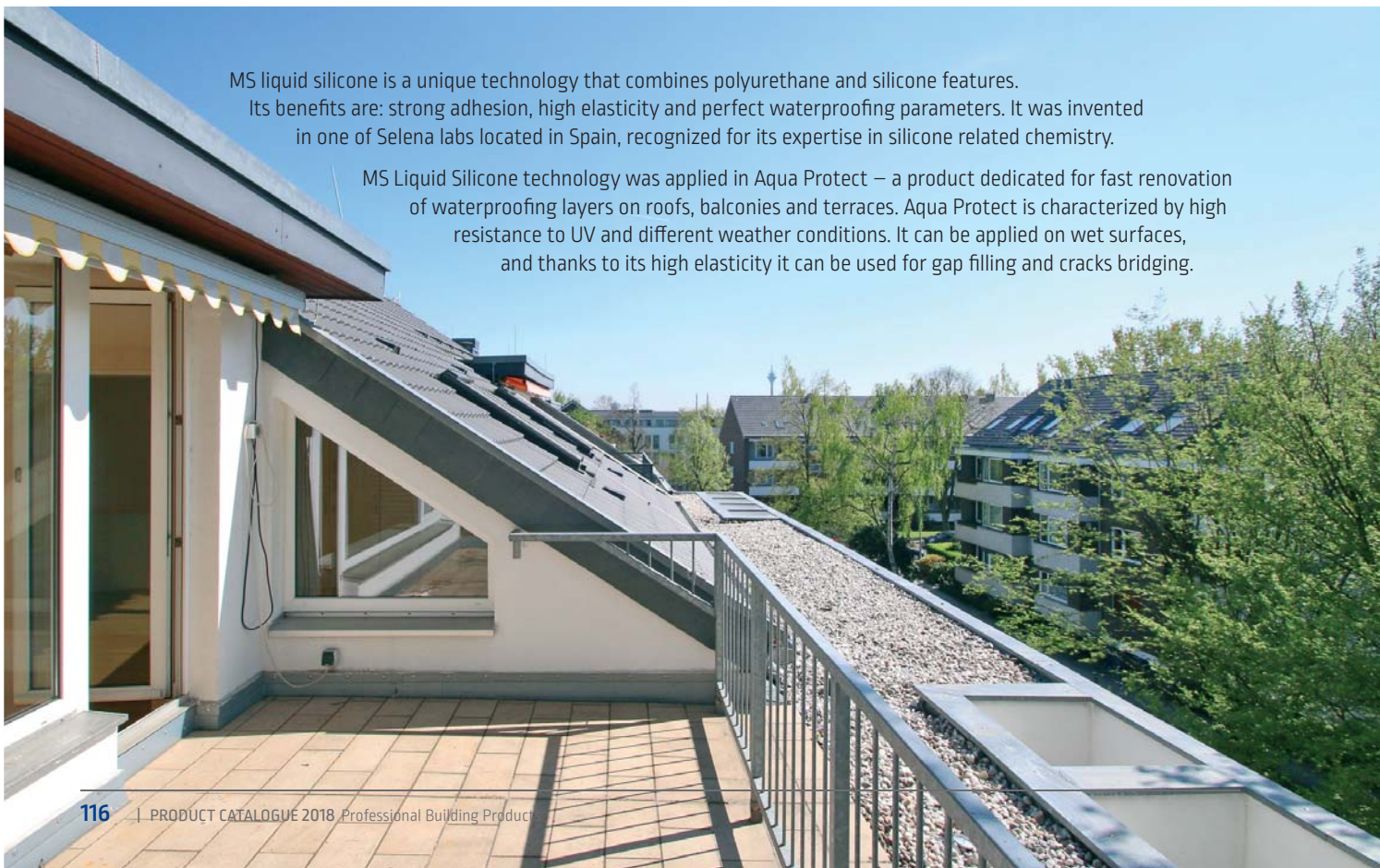
**BENEFITS:**

- No shrinkage (no water or solvents)
- Great elasticity
- Waterproof even in areas of stagnant water

Product name	Content	Packaging	Pieces per pallet
Aqua Protect	1 kg	Bucket	396
	5 kg	Bucket	192
	25 kg	Bucket	16

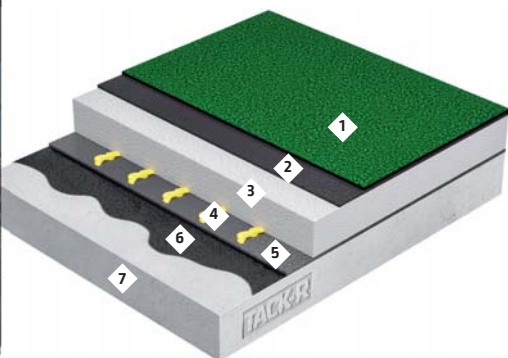
MS liquid silicone is a unique technology that combines polyurethane and silicone features. Its benefits are: strong adhesion, high elasticity and perfect waterproofing parameters. It was invented in one of Selena labs located in Spain, recognized for its expertise in silicone related chemistry.

MS Liquid Silicone technology was applied in Aqua Protect – a product dedicated for fast renovation of waterproofing layers on roofs, balconies and terraces. Aqua Protect is characterized by high resistance to UV and different weather conditions. It can be applied on wet surfaces, and thanks to its high elasticity it can be used for gap filling and cracks bridging.



# KDT 12

## Foam Adhesive for Thermal Insulation



KDT 12 is dedicated for mounting thermal insulation boards on flat roofs, both new and renovated. It ensures perfect adhesion to typical construction materials and increased wind resistance.

### APPLICATIONS:

- Mounting insulation boards on flat roofs
- It is suitable for polystyrene boards, XPS, mineral wool

### BENEFITS:

- Wind resistant formula
- High yield
- Fast initial curing time (1 h)
- Application below 0°C
- Perfect adhesion to typical construction materials
- Easy application

### TECHNICAL PARAMETERS:

- Yield: 13 m<sup>2</sup>
- Application temperature: -5°C to +35°C
- Can temperature: +5°C to +35°C (optimum +20°C)
- Open time: ≤ 10 min
- Correction time: < 15 min
- Anchoring time: ≥ 2 h
- Heat conductivity factor: > 0,036 W/mK

### SYSTEM ELEMENTS:

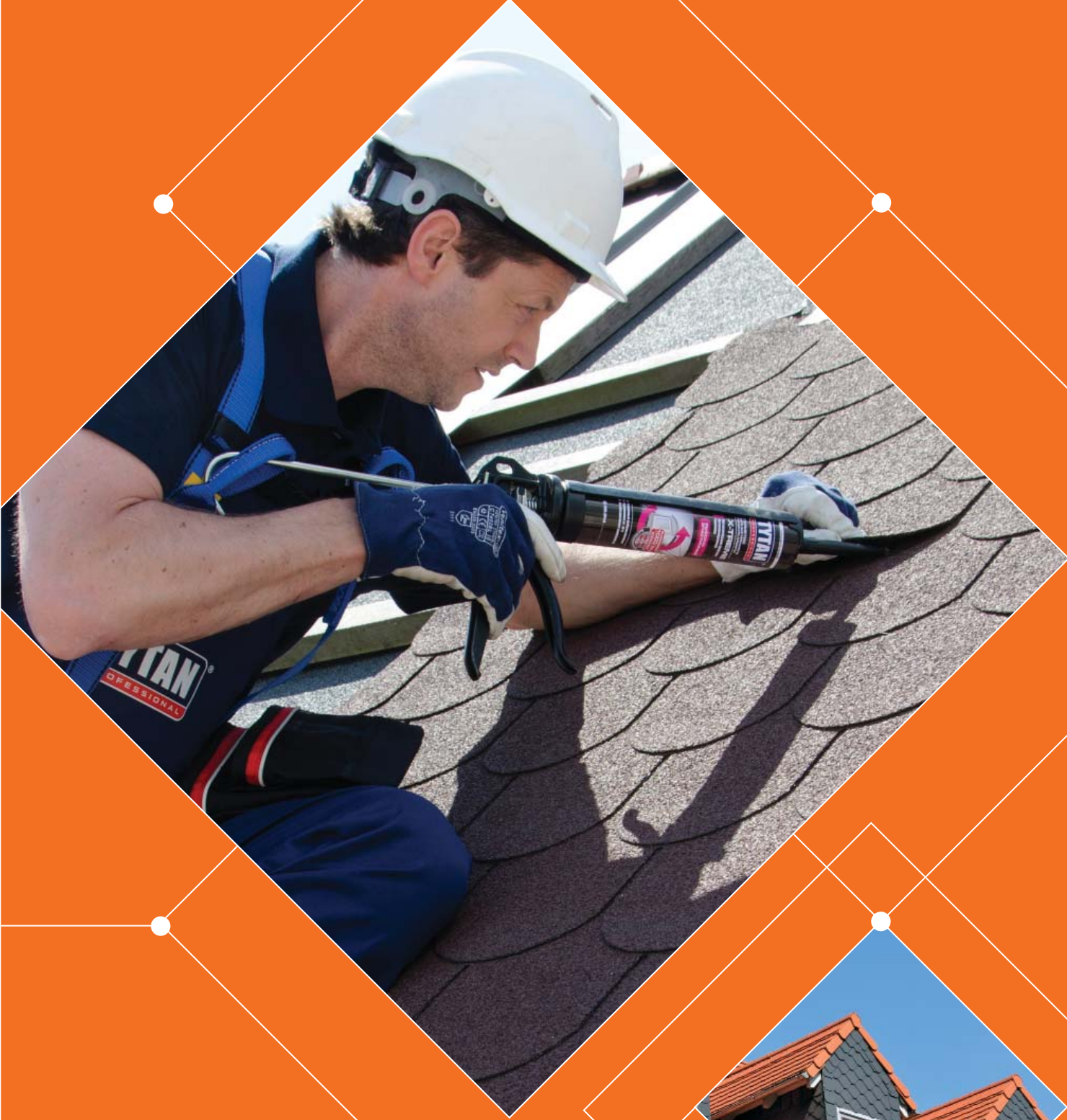
1. Self-adhesive bituminous membrane Tack-R ST25 S50
2. Self-adhesive bituminous membrane Tack-R SU20 S25
3. EPS 100 thermal insulation
4. KDT 12 polyurethane adhesive
5. Self-adhesive bituminous waterproof membrane Tack-R S ALU S26
6. Priming preparation
7. Steel-concrete ceiling

Product name	Content	Packaging	Pieces per box	Pieces per pallet
KDT 12	750 ml	Can	12	624

## Bonding thermal insulation on the roofs

Installing the thermal insulation boards on the roofs can be a time consuming job. Traditionally it is done with the use of mechanical fixings which involves additional equipment and additional people on the job site.

To change this Selena introduced KDT 12 Roofing Foam Adhesive that easily replaces the mechanical fixings in installing the thermal insulation boards. KDT 12 not only speeds up the working time but also makes it easier and lighter.

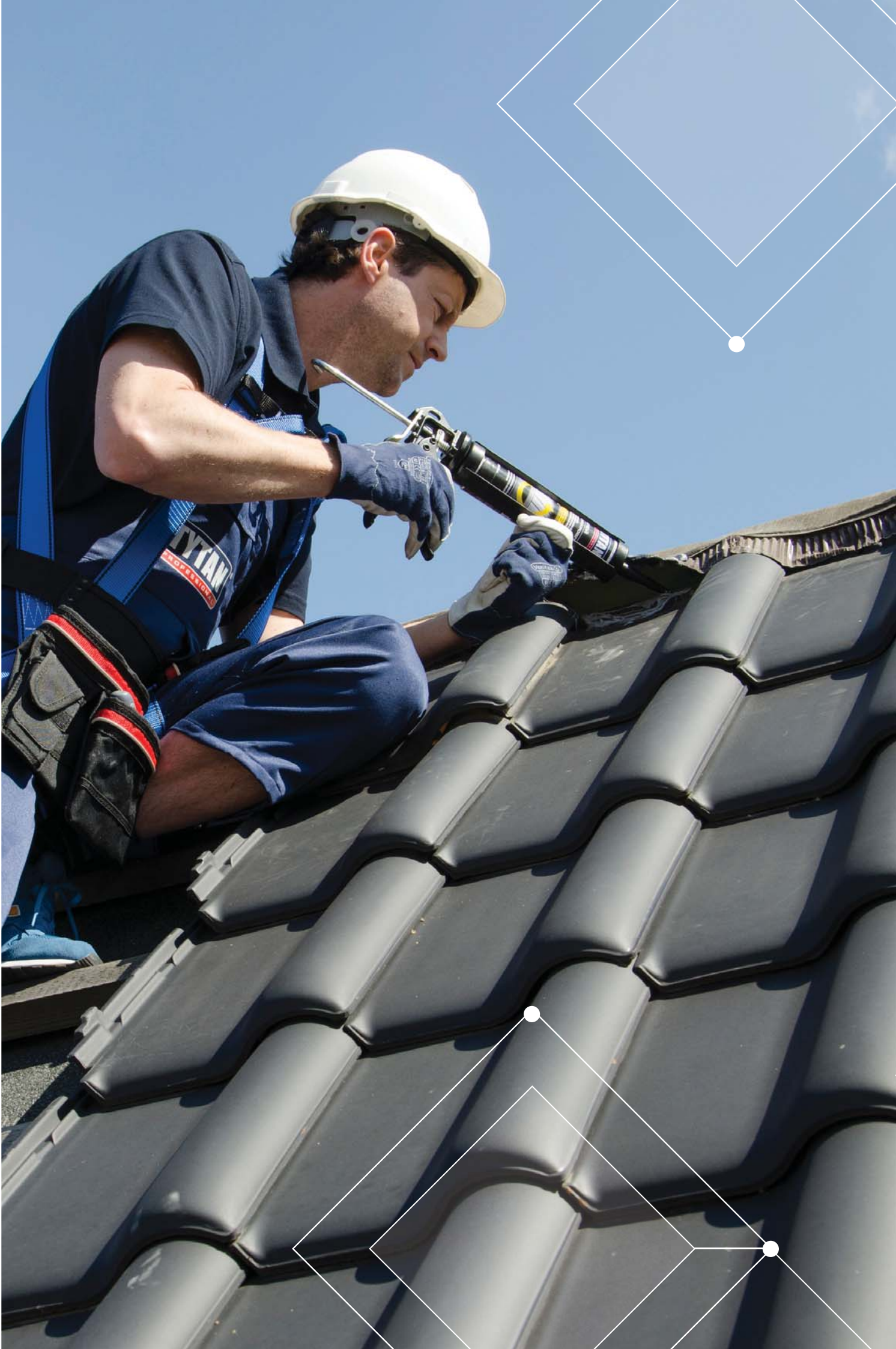


# SLOPING ROOFS

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# SLOPING ROOFS

## The main function of the roof is protection against precipitation

That is why the key parameter of any roof is its tightness. Properly sealed roof panels protect the roof structure and the whole building against moisture which is the main cause of the following undesirable effects:

- dampness of thermal insulation which affects its insulating capacity
- deformation of roof trusses
- growth of moulds and fungi

The sloping roof due to its complex, multi-element structure is particularly sensitive to leakage. This is why it is crucial to render proper sealing of all the elements which stand out over the roof surface or which break the continuity of roof tiles (for example, chimneys, roof windows, etc.). Moreover, it is key for roof tightness to seal all the joints made of different materials or different roof elements (such as eaves, corners, roof valleys or dormer windows).

## Chimney flashing

Chimney stacks break the continuity of all the layers of roof covers. The chimney flashing is applied as weatherproofing to prevent rain water from penetrating under the roof cover. Traditional solution is the metal sheet flashing. However, it is a multi-stage, time-consuming and complex procedure. A chimney sealing tape can be applied instead. It forms a tight flange connecting the chimney surface with the roof cover. It does not require cutting in of the chimney stack which makes the process of treatment shorter. The sealing strips are more flexible and put smaller load on the roof structure.





## Joining materials on the roof

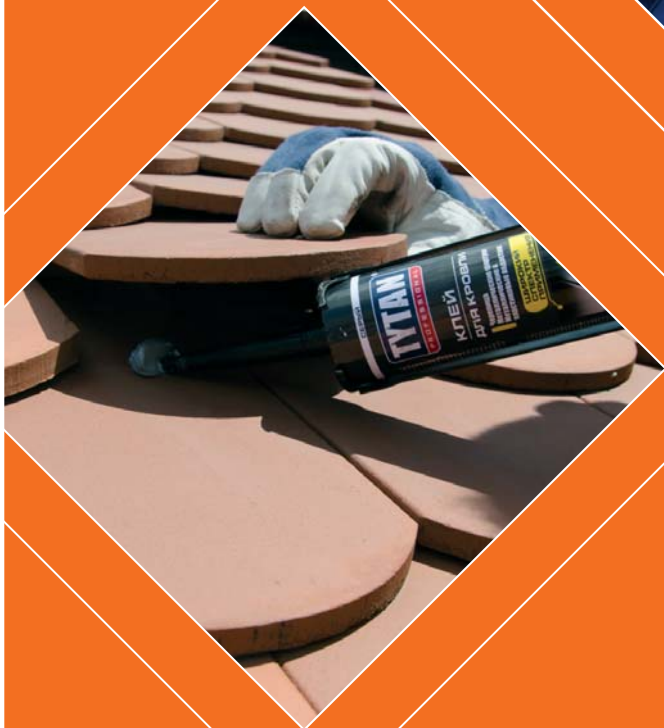
Regardless of the kind of roof cover (ceramic tile, sheet metal tile, cement tile, or bituminous shingle), a large percentage of roofing treatments are made of sheet metal which, eventually, has to be made waterproof. It is essential that the sealing materials that we choose are adequate for joining different types of materials while preserving the highest possible technical standards, such as the following:

- strong adhesion to substrate
- the UV resistance, corrosion and wear resistance
- the range of temperature resistance
- elasticity
- curing time
- runoff resistance at high temperature

## The sealing of leakage

With the passage of time, even the most carefully made roof covers are exposed to leakage. When it happens, it is crucial to react quickly and effectively in order to prevent further construction damage. Emergencies like these require the application of special materials which can be:

- applied on wet substrates
- applied on water stagnations
- applied at below zero temperature



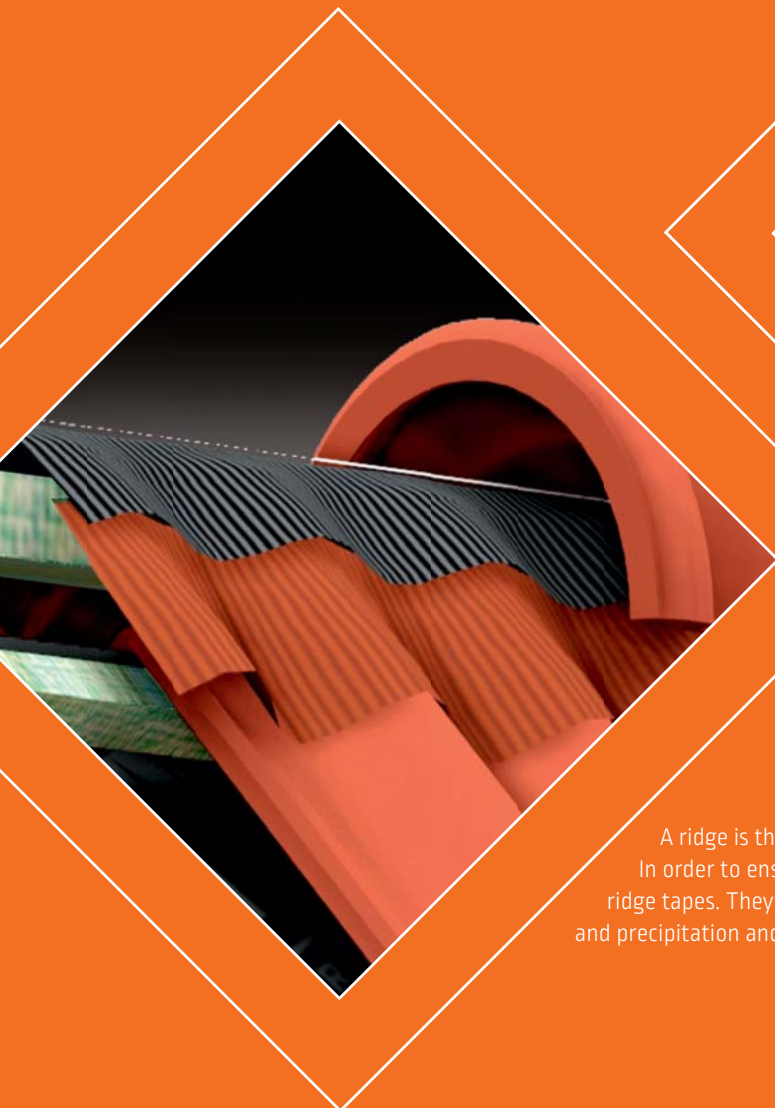
## In addition to sealing properties, another crucial parameter of the roof cover is ventilation

Moisture can appear inside buildings not only from the outside but also as a result of the normal functioning inside buildings, such as washing, cooking, bathing, drying laundry or breathing. In the case of leaky vapour insulation inside the attic, the moisture accumulates in the insulation layer and this leads to the higher heat transfer ratio due to the lower insulation capacity of the material and this, in turn, leads to the chilling of the attic and higher heating costs, and in extreme cases, to the growth of mould and fungi.

## Roof cover ventilation

Ventilated roofs are laid in such a way that there is a ventilation gap left between the formwork boarding or the initial coverage membrane and the insulation layer. Thanks to that, the air flows in through an open bottom eave and escapes through a ridge. If the ventilation gap is unobstructed along its entire length, the flow of air dries away all the excess moisture accumulated in the thermal insulation and in the roof structure.

In order to achieve effective ventilation, proper materials must be used which allow the excess of moisture in thermal insulation to wick away. This is why, initial-coverage membranes of high vapour permeability are used which allow the thermal insulation to breathe and prevent the excess moisture from accumulating. Thanks to the application of breathable membranes with low vapour diffusion resistance, the moisture accumulating under the membrane is transferred into the atmosphere by the air current flowing under the roof cover from the eave to the ridge.



A ridge is the crucial element in the process of ventilation of the roof cover. In order to ensure its proper progress, we use special, highly vapour-permeable ridge tapes. They protect the inside of the roof cover against dust, nesting birds and precipitation and, at the same time, transfer damp air outside.

# Rubber

## Roof Sealant

Flexible rubber sealant for roof sealing and repairs. Highly resistant to weather conditions. It has an excellent adherence to common construction substrates, including bituminous ones.



### APPLICATIONS:

- Finishing of roof flashings: chimneys, eaves, gutters, roof windows
- Sealing roof details and connections between different roofing materials
- Repairing leaks in roof coverings
- Sealing elements of roof construction (drainage, ventilation, air-conditioning or flue gas ducts)

### BENEFITS:

- Can be used on damp and smooth substrates
- Paintable
- Strong resistance to ageing
- Creates durable, easy-fitting and flexible joint

### TECHNICAL PARAMETERS:

- Consistency: viscous paste
- Tooling: 3–15 min
- Curing time: 1–2 mm/ 24 h
- Elasticity (elongation at break): ISO 37 450%
- Tensile strength: ISO 37 0,70 MPa
- Shore a hardness: ISO 868 16
- Application temperature: +5°C to +40°C
- Temperature resistance: -20°C to +90°C

\* Tested at +23°C and 50% relative humidity.

Product name	Content	Packaging	Pieces per box	Pieces per pallet
Rubber Roof Sealant	310 ml	Cartridge	12	1 440

# Bitumen

## Roof Sealant

Permanently flexible roofing sealant with a bituminous and rubber base, recommended for repair and insulation of different roof coverings, including membranes, bituminous shingles and asphalt roofing. Do not use in contact with tar or for tar membranes.



### APPLICATIONS:

- Finishing of roof flashings: chimneys, eaves, gutters, roof windows
- Sealing roof details and connections between different roofing materials
- Bonding membrane coatings and fixing membrane to concrete
- Repairing leaks in roof coverings
- Sealing elements of roof construction (drainage, ventilation, air-conditioning or flue gas ducts)

### BENEFITS:

- Can be used on dry and damp substrates
- Resistant to moisture and changing weather conditions

### TECHNICAL PARAMETERS:

- Consistency: viscous paste
- Tooling time: 8–30 min
- Curing time: 1–1,5 mm/ 24 h
- Slump resistance +50°C: ISO 7390 > 5 mm
- Slump resistance +70°C: ISO 7390 > 20 mm
- Application temperature: +10°C to +35°C
- Temperature resistance: -50°C to +90°C

\* Tested at +23°C and 50% relative humidity.

Product name	Content	Packaging	Pieces per box	Pieces per pallet
Bitumen Roof Sealant	310 ml	Cartridge	12	1 440

# Silver

## Metal Roof Sealant



Permanently flexible bituminous roofing sealant with the addition of aluminum pigments that creates a silver coat. Do not use in contact with tar or for tar membranes.

### APPLICATIONS:

- Finishing of roof flashings: chimneys, eaves, gutters, roof windows
- Sealing roof details and connections made of metal sheets and other materials
- Repairing leaks in roof coverings
- Sealing elements of roof construction (drainage, ventilation, air-conditioning or flue gas ducts)

### TECHNICAL PARAMETERS:

- Consistency: viscous paste
- Tooling time: 15–30 min
- Curing time: 2–3 mm/ 24 h
- Slump resistance +50°C: ISO 7390 > 40 mm
- Application temperature: +10°C to +35°C
- Temperature resistance: -50°C to +90°C

### BENEFITS:

- Increased resistance to UV radiation and ageing
- Can be used on dry and damp substrates
- Resistant to moisture and changing weather conditions
- Contains no asbestos fibers

\* Tested at +23°C and 50% relative humidity.

Product name	Content	Packaging	Pieces per box	Pieces per pallet
Silver Metal Roof Sealant	310 ml	Cartridge	12	1440

# X-Treme

## Fiber Roof Sealant



X-treme Fiber Sealant is an instant repair mass, based on a new generation of synthetic rubber, strengthened with polymer fibers.

### APPLICATIONS:

- For permanent or emergency repairs of all types of roofing
- Repair and sealing of cracks in gutters (galvanized sheet, coated sheet, copper, PVC)
- Sealing ventilation outlets and chimneys

### TECHNICAL PARAMETERS:

- Consistency: sticky paste
- Tooling time: 2–10 min
- Curing time: 1–1,5 mm/ 24 h
- Elasticity (elongation at break): ISO 37 110%
- Tensile strength: ISO 37 0,75 MPa
- Hardness of shore: ISO 868 20
- Application temperature: -10°C to +40°C
- Temperature resistance: -20°C to +90°C
- Temperature range in service: 0°C to +25°C\*

### BENEFITS:

- Sealing in standing water
- Can be used during snow and rain
- Durable and flexible coating
- Good adhesion to porous and nonporous surfaces

\* Tested at +23°C and 50% relative humidity.

Product name	Content	Packaging	Pieces per box	Pieces per pallet
X-Treme Fiber Roof Sealant	310 ml	Cartridge	12	1440
	1 kg	Metal can	5	628

# Specialized

## Roof Sealant

Specialized Roof Sealant creates a plastic joint characterized by high resistance to aging. The product is compatible with all Tytan Professional roofing membranes.



### APPLICATIONS:

- Finishing of roof flashings: chimneys, eaves, gutters, roof windows
- Sealing of the corrugated and trapezoidal metal sheets
- Bonding roofing foils, roofing membranes and cold bitumen membranes
- For permanent or emergency repairs of all types of roofing
- Sealing elements of roof construction (drainage, ventilation, air-conditioning or flue gas ducts)

### TECHNICAL PARAMETERS:

- Consistency: viscous paste
- Tooling time: 5–10 min
- Curing time: 1 mm/ 24 h
- Slump resistance in +50°C: ISO 7390 > 2 mm
- Shore a hardness ISO 868 35 40
- Application temperature: -10°C to +30°C
- Temperature resistance: -20°C to +90°C
- Temperature range in service: 0°C to +25°C

### BENEFITS:

- Excellent adhesion to different surfaces including bitumen, clinker and steel
- Slump resistant up to +70°C
- Good adhesion to wet surfaces – can be applied even under water
- Mold resistant and antibacterial

\* Tested at +23°C and 50% relative humidity.

Product name	Content	Packaging	Pieces per box	Pieces per pallet
Specialized Roof Sealant	280 ml	Cartridge	12	1 440
	310 ml	Cartridge	12	1 440

# Water Stop

## Plastic Bitumen Sealing

Water Stop is a one component plastic bitumen recommended for emergency and temporary repairs to prevent water leaking. Water Stop creates an efficient waterproof barrier and prepares the substrate for subsequent renovation works.



### APPLICATIONS:

- Emergency repairs to prevent water leakage
- Filling cracks and scratches in roofs

### BENEFITS:

- Can be applied on moist surfaces
- Excellent adhesion to most roofing materials
- Reinforced with glass fibers
- 100% waterproof
- Resistant to changing weather conditions
- Asbestos free

### TECHNICAL PARAMETERS:

- Consistency: semi-solid paste
- Colour: black
- Tooling time: 20–40 min
- Application temperature: +10°C to +35°C
- Temperature resistance: -50°C to +90°C
- Temperature range in service: +5°C to +20°C

\* Tested at +23°C and 50% relative humidity.

Product name	Content	Packaging	Pieces per box	Pieces per pallet
Water Stop	1 kg	Metal can	6	528
	5 kg	Metal can	1	144

# Roof Adhesive

One-component hybrid-based adhesive, designed specifically for roofing applications. Characterized by excellent adhesion to roofing materials such as lacquered and galvanized steel or ceramic roof-tiles.



**APPLICATIONS:**

- Bonding gutter elements made of copper, galvanized steel and PVC
- Bonding raw, galvanized, coated and titanium zinc steel
- Bonding ceramic, concrete, metal roof tiles
- Bonding roofing brass and ceramic roof tiles to various surfaces, such as metal, brick, concrete or wood
- Sealing dilatations and joints in roofing works

**TECHNICAL PARAMETERS:**

- Curing rate: 2–3 mm/ 24 h
- Tooling time: 10–20 min
- Productivity: 200–350 g/m<sup>2</sup>
- Application temperature: +5°C to +30°C
- Temperature resistance: -30°C to +90°C

**BENEFITS:**

- Resistant to extreme climate conditions and to most chemicals
- Does not damage sensitive surfaces
- Highly elastic
- Applicable on dry and moist surfaces
- Solvent-free, silicone-free and isocyanines-free

\* Tested at +23°C and 50% relative humidity.

Product name	Content	Packaging	Pieces per box	Pieces per pallet
Roof Adhesive	290 ml	Cartridge	12	1440

# Roof

## Gun Foam Adhesive

A polyurethane foam adhesive designed especially for mounting and sealing of roof coverings made of tiles, tinware and other materials.



**APPLICATIONS:**

- Roof tiles installation and repairs
- Thermal insulation of roof coverings – filling gaps under the roof covering
- Reduction of thermal bridges in roof structures, e.g. at the junction between the wall plate and the gable wall

**TECHNICAL PARAMETERS:**

- Colour: brick, grey
- Yield: up to 45 l
- Cutting time: ≤ 60 min
- Ambient temperature: 0°C to +30°C
- Can temperature: +10°C to +30°C
- Shelf life: 18 months

**BENEFITS:**

- Excellent adhesion to roofing surfaces and typical building materials
- Low expansion
- Resistant to mildew, mold and fungi
- Excellent thermal and acoustic insulation

Product name	Content	Packaging	Pieces per box	Pieces per pallet
Roof Gun Foam Adhesive	750 ml	Can	12	624

## Chimney Tape

Aluminum chimney tape, fully coated with butyl adhesive for superior adhesion. It is ideal for weatherproofing roof flashings such as side and top abutments around chimneys and dormers.



**APPLICATIONS:**

- Roof flashings of chimneys and dormers

**BENEFITS:**

- 3D profiled surface which enables to easily and closely adjust the tape to required shape
- The backing film is cut in the middle for easy removal
- Butyl adhesive provides an immediate seal
- 2 layers of UV resistant paint

**TECHNICAL PARAMETERS:**

- Size: 300 mm x 5 m
- Aluminum thickness: 0,12 mm
- Colours:
  - brick (RAL 8004)
  - grey brown (RAL 8019)
  - anthracite (RAL 7021)
  - chestnut brown (RAL 8015)
  - black (RAL 9005)
  - cherry (RAL 3004)

Product name	Dimensions	Pieces per box	Pieces per pallet
Chimney Tape	300 mm x 5 m	1 box = 1 pc	144

## Roof Ridge Tape GEO

The Roof Ridge Tape seals the ridge against wind-transported snow and rain, at the same time allowing roof ventilation. It is made of two strips of pleated aluminum sheet and a durable permeable fabric (Geotextile). The back of the aluminum is coated with self-adhesive butyl strips 30 mm wide.



**APPLICATIONS:**

- Sealing of roof ridge

**BENEFITS:**

- Robust connection of aluminum and fabric thanks to adhesive and 2 firm polyester yarns
- Waved aluminum allows to adjust the tape shape to the tile
- 2 strips of butyl adhesive

**TECHNICAL PARAMETERS:**

- Size: 300 mm x 5 m
- Aluminum thickness: 0,12 mm
- Fabric: geotextile, polyester non-woven fabric, surface mass: 120 g/m<sup>2</sup>
- Colours:
  - Brick (RAL 8004)
  - Grey brown, (RAL 8019)
  - Anthracite (RAL 7021)
  - Chestnut brown (RAL 8015)
  - Black (RAL 9005)
  - Cherry (RAL 3004)

Product name	Dimensions	Pieces per box	Pieces per pallet
Roof Ridge Tape GEO	300 mm x 5 m	1 box = 1 pc	144

## Roof Ridge Tape MAT

The Roof Ridge Tape seals the ridge against wind-transported snow and rain, at the same time allowing roof ventilation. It is made of two strips of pleated aluminum sheet and a durable permeable fabric (PPtextile). The back of the aluminum is coated with self-adhesive butyl strips 30 mm wide.



### APPLICATIONS:

- Sealing of roof ridge

### BENEFITS:

- Robust connection of aluminum and fabric thanks to adhesive and 2 firm polyester yarns.
- Waved aluminum allows to adjust the tape shape to the tile
- 2 strips of butyl adhesive

### TECHNICAL PARAMETERS:

- Size: 300 mm x 5 m
- Aluminum thickness: 0,12 mm
- Fabric: polypropylen fabric (polypropylene woven fibers, surface mass: 220 g/m<sup>2</sup>)
- Colours:
  - brick (RAL 8004)
  - grey brown, (RAL 8019)
  - anthracite (RAL 7021)
  - chestnut brown (RAL 8015)
  - black (RAL 9005)
  - cherry (RAL 3004)

Product name	Dimensions	Pieces per box	Pieces per pallet
Roof Ridge Tape MAT	300 mm x 5 m	1 box = 1 pc	144

## Roofing Sealing Tape

Self-adhesive bituminous waterproofing tape protected with aluminum film. Strong adhesive power makes it ideal for sealing, waterproofing and protecting any roof surface.



### APPLICATIONS:

- Finishing of roof flashings: chimneys, eaves, gutters, roof windows and skylights
- Sealing roof details and connections between different roofing materials
- Repairing leaks in roof coverings and drainage elements (gutters, metal pipes)
- Sealing elements of roof construction (drainage, ventilation, air-conditioning or flue gas ducts)

### BENEFITS:

- Versatile and easy-to-use
- Flexible
- Excellent UV and weather resistance
- Good initial tack and strong seal
- Great adhesion to many materials, e.g. concrete, stone and metals

### TECHNICAL PARAMETERS:

- Thickness: 1,5 mm
- Aluminum thickness: 0,04 mm
- Initial tack: immediately
- Final bonding strength: after 24 h
- Tensile strength 4,5 kN/m
- Water penetration: 0,3 gr/m<sup>2</sup> (24 h/1 bar)
- Application temperature: > +5°C
- Temperature resistance: -30°C to +85°C

Product name	Dimensions	Pieces per box	Pieces per pallet
Roofing Sealing Tape	7,5 cm x 10 m	1 box = 4 pcs	400
	10 cm x 10 m	1 box = 3 pcs	300
	15 cm x 10 m	1 box = 2 pcs	200
	30 cm x 10 m	1 box = 1 pc	100



## Tytan 100, 120 Breathable Roof Membrane



Three-layer vapor-permeable roof membrane. Made of two layers of polypropylene nonwoven and special functional film which ensures high vapor permeability and water tightness of the underlay. Owing to its high vapor permeability, it can be applied directly on insulation and consequently a venting slot is not required between the membrane and the thermal insulation.

### APPLICATIONS:

- The membrane is designed for use in construction industry as an initial roof covering on pitched roofs

### BENEFITS:

- VHighly vapor permeable
- Watertight
- Ageing resistant

### TECHNICAL PARAMETERS TYTAN 100:

- Mass per unit area: 100 g/m<sup>2</sup> (± 10%)
- Tensile strength – longitudinal (MD): 170 N/ 50 mm (± 30%)
- Tensile strength – transverse (CD): 90 N/50 mm (± 30%)
- Elongation – longitudinal (MD): 55% (± 40%)
- Elongation – transverse (CD): 57% (± 40%)
- Tear resistance – nail shank; longitudinal (MD): 80 N
- Tear resistance – nail shank; transverse (CD): 80 N
- Water vapour transmission (Sd): 0,02 (± 0,015 m)
- Watertightness: W1
- Reaction to fire: class F
- Flexibility at low temperature: -20°C

### TECHNICAL PARAMETERS TYTAN 120:

- Mass per unit area: 120 g/m<sup>2</sup> (± 10%)
- Tensile strength – longitudinal (MD): 190 N/50 mm (± 30%)
- Tensile strength – transverse (CD): 120 N/50 mm (± 30%)
- Elongation – longitudinal (MD): 55% (± 40%)
- Elongation – transverse (CD): 60% (± 40%)
- Tear resistance – nail shank; longitudinal (MD): 100 N
- Tear resistance – nail shank; transverse (CD): 100 N
- Water vapour transmission (Sd): 0,02 (± 0,015 m)
- Watertightness: W1
- Reaction to fire: class E
- Flexibility at low temperature: -20°C

Product name	Dimensions	Pieces per pallet
Tytan 100	1,5 m x 50 m	50
Tytan 120	1,5 m x 50 m	50

## Membranes

The universal measure of vapour permeability is the Sd coefficient which is an aerial equivalent of diffusional resistance. It defines the thickness of the air layer which resists the vapour at the same extent as a given material.

Sd = 0,02–0,1 m – high vapour permeability membranes

Sd = 1,0–3,0 m – low vapour permeability membranes

Sd = 100 m + – vapour resistant membranes

### The parameters of roofing foils and membranes:

1. Vapour permeability which defines capacity for vapour penetration through the material.
2. Weight – defines membrane thickness.
3. Resistance to penetration by water – membranes should be completely waterproof.
4. Mechanical properties – mainly tear strength which is a vital factor during installation.
5. Temperature range for the application of a given material – it defines its durability and quality of materials over time.

## Tytan 130, 145, 160 Breathable Roof Membrane



Three-layer vapor-permeable roof membrane. Made of two layers of polypropylene nonwoven and special functional polyethylene film which ensures high vapor permeability and water tightness of the underlay. Owing to its high vapor permeability, it can be applied directly on insulation and consequently a venting slot is not required between the membrane and the thermal insulation.

### APPLICATIONS:

- The membrane is designed for use in construction industry as an initial roof covering on pitched roofs

### BENEFITS:

- Highly vapor permeable
- Watertight
- Tear resistant

#### TECHNICAL PARAMETERS TYTAN 130:

- Mass per unit area: 130 g/m<sup>2</sup> (± 10%)
- Tensile strength – longitudinal (MD): 220 N/ 50 mm (± 30%)
- Tensile strength – transverse (CD): 140 N/50 mm (± 30%)
- Elongation – longitudinal (MD): 55% (± 40%)
- Elongation – transverse (CD): 57% (± 40%)
- Tear resistance – nail shank; longitudinal (MD): 110 N
- Tear resistance – nail shank; transverse (CD): 110 N
- Water vapour transmission (Sd): 0,02 (± 0,015 m)
- Watertightness: W1
- Reaction to fire: class E
- Flexibility at low temperature: -20°C

#### TECHNICAL PARAMETERS TYTAN 145:

- Mass per unit area: 145 g/m<sup>2</sup> (± 10%)
- Tensile strength – longitudinal (MD): 240 N/ 50 mm (± 30%)
- Tensile strength – transverse (CD): 155 N/ 50 mm (± 30%)
- Elongation – longitudinal (MD): 55% (± 40%)
- Elongation – transverse (CD): 62% (± 40%)
- Tear resistance – nail shank; longitudinal (MD): 125 N
- Tear resistance – nail shank; transverse (CD): 120 N
- Water vapour transmission (Sd): 0,02 (± 0,015 m)
- Watertightness: W1
- Reaction to fire: class E
- Flexibility at low temperature: -20°C

#### TECHNICAL PARAMETERS TYTAN 160:

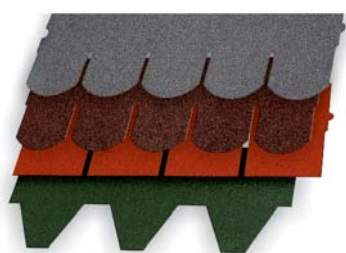
- Mass per unit area: 160 g/m<sup>2</sup> (± 10%)
- Tensile strength – longitudinal (MD): 270 N/50 mm (± 30%)
- Tensile strength – transverse (CD): 180 N/ 50 mm (± 30%)
- Elongation – longitudinal (MD): 86% (± 40%)
- Elongation – transverse (CD): 92% (± 40%)
- Tear resistance – nail shank; longitudinal (MD): 108N
- Tear resistance – nail shank; transverse (CD): 125 N
- Water vapour transmission (Sd): 0,02 (± 0,015 m)
- Watertightness: W1
- Reaction to fire: class E
- Flexibility at low temperature: -20°C

Product name	Dimension	Pieces per pallet
Tytan 130	1,5 m x 50 m	50
Tytan 145	1,5 m x 50 m	50
Tytan 160	1,5 m x 50 m	40

## Matizol SBS

### Bitumen Shingles

Bitumen shingles Matizol SBS is a line of roof coverings with increased content of bitum, dedicated for individual, residential and industrial buildings. The structural base of Matizol shingles is a glass-fibre tissue covered on both sides by a bitumen protective layer that is weather and ageing resistant. The entire bottom surface of Matizol shingles is covered with bituminous adhesive for efficient application of shingles to the substrate.



#### APPLICATIONS:

- Slope roofs with an angle between 12° and 75°
- Both new and renovated coverings

#### BENEFITS:

- Very good application properties (complete adherence of each layer)
- Long-lasting quality confirmed by 20 years' guarantee
- Flexible even at freezing temperature

#### TECHNICAL PARAMETERS:

- Content of asphalt:  $\geq 1300 \text{ g/m}^2$
- The maximum tensile force N/ 50 mm:
- Direction along the width:  $\geq 600$
- Direction along the height:  $\geq 400$
- Nail tearing strength:  $\geq 100 \text{ N}$
- Reaction to fire: class E
- External fire: BROOF(t1)
- Flow resistance at +90°C:  $\leq 2 \text{ mm}$
- Water absorption:  $\leq 2\%$
- Mineral topping adhesion:  $\leq 2,5 \text{ g}$

Product name	Type	Dimension	m <sup>2</sup> /piece	Pieces per pallet
Matizol SBS	Hexagon	100 x 31 cm	3 m <sup>2</sup>	40
	Rectangular	100 x 34 cm	3,2 m <sup>2</sup>	40
	Beaver tail	100 x 34 cm	3,85 m <sup>2</sup>	36
	Arkadia	100 x 31 cm	3 m <sup>2</sup>	40

## Matizol SBS

### Bitumen Ridge Shingles

A complementary line of ridge shingles was created for capping the ridges and hips of the roof. Bitumen ridge shingles are based on carrier of woven glass and characterized by the same features as bitumen shingles Matizol SBS to fully suit its range.



#### APPLICATIONS:

- Roof ridges and hips of the roofs

#### BENEFITS:

- High elasticity
- Durability
- Resistance to biological corrosion

#### TECHNICAL PARAMETERS:

- Content of asphalt:  $\geq 1300 \text{ g/m}^2$
- The maximum tensile force N/ 50 mm:
- Direction along the width:  $\geq 600$
- Direction along the height:  $\geq 400$
- Nail tearing strength:  $\geq 100 \text{ N}$
- Reaction to fire: class E
- External fire: BROOF(t1)
- Flow resistance at +90°C:  $\leq 2 \text{ mm}$
- Water absorption:  $\leq 2\%$
- Mineral topping adhesion:  $\leq 2,5 \text{ g}$

## Bitumen Shingle Adhesive

Shingle Adhesive is one component plastic bitumen adhesive designed especially for bitumen shingles. It enables shingles installation in difficult weather conditions.



### APPLICATIONS:

- Bonding bitumen shingles
- Repairing damaged roofing elements
- Sealing cracks in bitumen roof coverings
- Strengthening the installation of roofing flashings

### BENEFITS:

- High adhesion to wide range of substrates
- High flexibility and low brittleness at minus temperatures
- Stable and durable joint

### TECHNICAL PARAMETERS:

- Consistency: viscous paste
- Tooling time: 8–30 min
- Curing time: 1–1,5 mm/ 24 h
- Slump resistance +50°C ISO 7390: > 5 mm
- Slump resistance +70°C ISO 7390: > 20 mm
- Application temperature: -10°C to +35°C
- Temperature resistance: -50°C to +90°C
- Temperature range in service: +5°C to +25°C

Product name	Content	Pieces per box	Pieces per pallet	Colour
Bitumen Shingle Adhesive	280 ml	12	1 440	Black
	310 ml	12	1 440	Black

## 3W Bitumen Shingle Underlay



Three-layer insulation material made of polyester fabric with a bitumen and polymer mixture. It is intended as a base layer for discontinuous roof coverings.

### APPLICATIONS:

- Base layer used on roofs with the pitch between 12° and 75°

### BENEFITS:

- Better mechanical properties
- Resistance to tears and cuts
- Flexibility at freezing temperatures down to -25°C
- Resistance to flow at temperatures of up to +130°C

### TECHNICAL PARAMETERS:

- Mass per unit area: 1000 g/m<sup>2</sup> ± 20%
- Elongation – longitudinal (MD): [500 ± 150] N/ 50 mm
- Elongation – transverse (CD): [350 ± 100] N/ 50 mm
- Tear resistance – nail shank; longitudinal (MD): (150 ± 50) N
- Tear resistance – nail shank; transverse (CD): (150 ± 50) N
- Water tightness: class W 2
- Watertightness: class W 1
- Reaction to fire: class E
- Flexibility at low temperature: ≤ -25°C
- Size: 20,0 m x 1,0 m (± 0,5%)

Product name	Content	Packaging	Pieces per pallet	Pieces per pallet
3W Bitumen Shingle Underlay	20	Roll	20 pcs/ 400 m <sup>2</sup>	400

## Bitumen Cleaner Fast & Safe Remover



It is a special solvent, based on the latest generation of plant esters, designed to dissolve and remove most of organic and inorganic substances including asphalt based ones, unpolymerized resins and paints.

### APPLICATIONS:

- To remove remainings of bitumen, grease, oils, adhesives and tapes

### BENEFITS:

- Does not damage the surface
- Deep penetrating
- Ecological, with friendly scent

### TECHNICAL PARAMETERS:

- Working temperature: -20°C to +40°C
- Dissolution time: 3,15 min

Product name	Content	Packaging	Pieces per box	Pieces per pallet
Bitumen Cleaner	500 ml	Aerosol can	12	1 008

## Flexi Gum

### Fast Leaks Repair



Flexi Gum is an easy to use, rubberized protective utility coating designed to fill and seal leaks and cracks. It provides a water-tight, flexible seal that prevents moisture penetration and corrosion.

### APPLICATIONS:

- To fill and seal leaks and cracks on many types of surfaces: metal and ceramic, aluminum, galvanized metal, PVC, concrete and bituminous materials.

### BENEFITS:

- Transparent colour
- Fast drying
- Paintable

### TECHNICAL PARAMETERS:

- Appearance: semi smooth
- Colour: transparent
- Drying times:
  - Initial: 20–30 min
  - Full hardness: 24 h
- Application temperature: +10°C to +35°C

\* Tested at +20°C and 50% relative humidity.

Product name	Content	Packaging	Pieces per box	Pieces per pallet
Flexi Gum	500 ml	Aerosol can	6	870



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