BUILDING TRUST

PRODUCT DATA SHEET

Sika BlackSeal® T-140 MG

4 mm thick, torch-on, sheet waterproofing membrane based on APP modified, reinforced bitumen, with slate finish – Flexible to 0°C

DESCRIPTION

Sika BlackSeal® T-140 MG is a torch-on, sheet waterproofing membrane that is flexible to 0 °C. It is based on APP (atactic poly-propylene) modified bitumen, reinforced with polyester non woven fabric. It has a slate granule broadcast surface and the reverse is faced with a polyethylene film to ease installation works

USES

- Waterproofing on flat and exposed roofs

CHARACTERISTICS / ADVANTAGES

- Resistant to ageing
- Resistant to weathering with improved durability
- Good tensile strength and elongation
- High resistance to water vapour (non-vapour permeable)
- Good dimensional stability
- Flexible at low temperatures
- Easy to install with the torch-on method
- Suitable as top layer for multilayer installations
- Not resistant to root penetration
- Good resistance to mechanical impact
- Must be installed on suitable primed, uniform and smooth substrates such as concrete and brickwork

PRODUCT INFORMATION

Packaging	Roll size: 1.00 m (roll width) x 10.00 m (roll length). Unit weight: approx. 5.00 kg/m2
Appearance / Colour	Rolled sheet membrane, reinforced with polyester non woven fabric. Surface: slate granule broadcast, Reverse: polyethylene film to ease installation Membrane thickness: 4.00 mm Colour: grey, green

Shelf Life	4 years from date of production.	
Storage Conditions	Store in dry conditions between +5°C to +35°C. Rolls must be stored in their original package, in vertical position and under cool and dry conditions. They must be protected from direct sunlight, rain, snow and ice.	
Length	10.00 m (-1%)	(EN 1848 - 1)
Width	1.00 m (-1%)	(EN 1848 - 1)
Effective Thickness	4.00 mm (± 5%)	(EN 1849 - 1)

TECHNICAL INFORMATION

Resistance to Impact	≥ 600 mm	(EN 12691)
Tensile Strength	**Maximum** 700 N / 50mm (± 20%) 600 N / 50mm (± 20%)	(EN 12311 - 1))
Elongation	45% (± 15%)	(EN 12311 - 1)
Dimensional Stability	longitudinal transversal: ≤ 0.25%	(EN 1107 - 1)
Tear Strength	160 N (± 30%) (nail shank)	(EN 12310 -1))
Joint Shear Resistance	≥ 400N / 50 mm	(EN 12317 -1)
Flexibility at low temperature	0°C	(EN 1109))
External Fire Performance	Class F roof (t1-4)	(ENV 1187)
Reaction to Fire	Class F	(EN 13501 - 1)
Flow Resistance	To elevated temperatures ≥ 120°C	(EN 1110)
Artificial Ageing	*No defects*	(EN 1296)
	Long term exposure to elevated temperatures according to EN 1296 - flexibility at elevated temperatures: >+120°C (from -10°C)	(EN 1110)
	By long term exposure to UV radiation and elevated temperatures according to EN 1296 / EN 1297:	
	Max. tensile strength: 600 N / 50 mm, 600 N / 50 mm	(EN 12311 - 1)
	Max. elongation: 40%, 40%	(EN 12311 - 1)
	Water tightness: ≥ 60 kPa	(EN 1928)
Water Vapour Transimission	≤ 0.2 g / 24 hours / m2	(ASTM E96)
Water Tightness	≥ 60 kPa	(EN 1928 – B)

SYSTEM INFORMATION

System Structure	Ancillary Product: Suitable cold applied bitumen primer - Sika® BlackSeal Primer.

APPLICATION INFORMATION

Ambient Air Temperature	+5°C min. / +50°C max.
Relative Air Humidity	≤ 85 %
Substrate Temperature	+5°C min. / +65°C max.
Substrate Moisture Content	≤ 25 %

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

Concrete / brickwork / mortar screeds:
Clean, sound and dry, homogeneous, free from oils and grease, dust and loose or friable particles. Horizontal surfaces must be sloped > 1.5%.

APPLICATION METHOD / TOOLS

The cold applied bituminous primer shall be applied on the substrate for the first membrane layer as followings:
Application by brush, roller, or airless spray. Waiting time is dependent on the temperature, for the primer to complete evaporation. (Note: Priming is not required for the second and further membrane layers).
The membrane is fully bonded to the substrate by the torch-on method using a gas torch. Unroll and position the membrane roll with the polyethylene film surface on the substrate. Roll out half a roll length, heating the membrane reverse with the gas flame until it melts the polyethylene film and bitumen mass, and allowing continuous unrolling. A bead of liquid bitumen must be visible on the underside of the roll. The torch-on membrane must be firmly pressed onto the substrate in order to avoid air entrapment using a special roller or heavy brush. Repeat this procedure with the second half of the roll.
All membranes must be overlapped by a min. 100 mm. The seams must be finished with a roller to prevent the formation of any gaps or voids.

FURTHER DOCUMENTS

Read the Sika bituminous membranes Method Statement before installing the bituminous membranes.
This product shall only be used by installers, skilled and experienced in the installation of torch-on bituminous membranes.
Avoid damage to previously installed membranes during the torch-on of further layers of sheet membrane.
The water tightness of the structure must be tested and approved after completion of the membrane installation works according to the requirements of the client's specifications.

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

ECOLOGY HEALTH AND SAFETY

LEGAL NOTES

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Sika South Africa (Pty) Ltd
9 Hocking Place,
Westmead, 3608
South Africa
Phone +27 31 792 6500
www.sika.co.za