BUILDING TRUST

PRODUCT DATA SHEET

Sika BlackSeal® T-140 SG

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

DESCRIPTION

Sika BlackSeal® T-140 SG is a torch applied sheet waterproofing membrane on base of APP- polymerized bitumen, reinforced with Polyester non woven fabric, with a sanded surface and the reverse faced with PE-film to ease installation works.

USES

- As Multilayer System for Water- and damp-proofing of exterior walls of basements against percolating water and soil humidity
- Intermediate layer for Multi-layer Systems for water-proofing of exposed roofs
- As Multi-layer System for waterproofing of ballasted roofs

CHARACTERISTICS / ADVANTAGES

- Resistant to ageing
- Good tensile strength and elongation
- High resistance to water vapour permeability
- Dimensional stable
- Easy to install by using flame torch method
- Not resistant to root penetration
- Suitable for multi layer installations only
- Must be installed on primed and smooth substrates of concrete or brickwalls

APPROVALS / STANDARDS

Product Declaration EN 13707, EN 13969
CE Approval No. 1370 – CPD 0054

PRODUCT INFORMATION

Packaging	Roll size: 1.00 m (roll width) x 10.00 m (roll length). Unit weight: approx. 4.8 kg/m2

Appearance / Colour	Rolled sheet membrane, reinforced with polyester non woven fabric. Surface: Sanded surface, Reverse: polyethylene film to ease installation Membrane thickness: 4.00 mm Colour: black	
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

Tensile Strength	Max. Tensile Strength logitudinal / transversal 450 N / 50mm (± 20%) 350 N / 50mm (± 20%)	(EN 12311 - 1)
Elongation	Longitudinal / Transversal 40% (± 15%) 40% (± 15%)	(EN 12311 - 1)
Dimensional Stability	Longitudinal / Transversal ≤ 0.25% ≤ 0.10%	(EN 1107 - 1)
Tear Strength	150 N (± 30%) (nail shank)	(EN 12310 -1)
Joint Shear Resistance	Break outside of joint	(EN 12317 -1)
Flexibility at low temperature	≤ 0 °C	(EN 1109)
External Fire Performance	Class F roof (t1-4)	(ENV 13501-5)
Reaction to Fire	Class F	(EN 13501 - 1)
Flow Resistance	At elevated Temperature ≥ 110°C	(EN 1110)
Artificial Ageing	By long term exposure to elevated temperatures according to EN 1296 - Flow resistance at elevated temperatures: +100°C (-10°C)	(EN 1110)
	By long term exposure to UV radiation and elevated temperatures according to EN 1296 / EN 1297:	
	Max. tensile strength: 400 N / 50 mm, 300 N / 50 mm	(EN 12311 - 1)
	Max. elongation: 35%, 35%	
	Water tightness: ≥ 60 kPa	(EN 1928)
Water Vapour Transimission	μ≥20'000	(EN 1931)

SYSTEM INFORMATION

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

APPLICATION INFORMATION

Ambient Air Temperature	+5°C min. / +35°C max.
Relative Air Humidity	≤ 80 %

Substrate Temperature	+5°C min. / +35°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

Primer application on substrate for first membrane layer:
Application of Sika® BlackSeal Primer for first membrane layer. Application by brush, roller, or airless spraying. Waiting time, depending to temperature, complete evaporation. Priming for second and further membrane layers not required.
Installation method:
Fully bonded to substrate by torch-on method with Propane - gas flame. Unrolling and positioning of membrane roll with PE-film faced to substrate. Rolling of half roll length, heating of membrane reverse with gas flame until melting of PE-film and bitumen mass while continuous unrolling. A bead of liquid bitumen must be visible on underside of roll. The torch-on membrane must be firmly pressed to substrate in order to avoid air entrapments either with roller or heavy broom. Repeat procedure with second half of roll length.
All installed membranes must be sufficiently overlapped. Sidelaps: 80 – 100 mm, Endlaps: 120 – 150 mm. The seams must be finished with roller while installing of membranes to close gaps and capillaries.

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 watertightness 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

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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