## Sika<sup>®</sup> BlackSeal T-140 MG (0°C)

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

Product Description	Sika <sup>®</sup> BituSeal T-140 MG (0°C) is a torch-on, sheet waterproofing membrane that 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
	<ul> <li>High resistance to water vapour (non-vapour permeable)</li> </ul>
	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
	<ul> <li>Must be installed on suitable primed, uniform and smooth substrates such as concrete and brickwork</li> </ul>
Tests	
Approval / Standards	Product may not be sold in EC-countries
	Installation on roofs according to EN 13707
Product Data	
Form	
Appearance / Colours	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



Packaging	Roll size: 1.00 m (roll width) x 10.00 m (roll length).	
	Unit weight: approx. 5.00 kg/m <sup>2</sup>	
Storage		
Storage Conditions / Shelf-Life	4 years from date of production. Store in dry conditions betwe Rolls must be stored in their original package, in vertical positi and dry conditions. They must be protected from direct sunligh	on and under cool
Technical Data		
Product Declaration	not available	
Length	10.00 m (-1%)	(EN 1848 - 1
Width	1.00 m (-1%)	(EN 1848 - 1
Mass per Unit Area	-	(EN 1849 - 1)
Flow Resistance	To elevated temperatures: ≥ 120°C	(EN 1110)
Effective Thickness	4.00 mm (± 5%)	(EN 1849 - 1)
Water Vapour Transmission	$\leq$ 0.2 g / 24 hours / m <sup>2</sup>	(ASTM E96)
Mechanical / Physical Properties		
Water Tightness	≥ 60 kPa	(EN 1928 – B)
Tensile Strength	Max. 700 N / 50mm (± 20%) 600 N / 50mm (± 20%)	(EN 12311 - 1
Tear Strength	160 N (± 30%) (nail shank)	(EN 12310 -1)
Elongation	45% (± 15%) 45% (± 15%)	(EN 12311 - 1)
Accelerated Ageing Test	No defects	(EN 1296)
	Long term exposure to UV radiation according to EN 1297: Pass	(EN 1850 -1)
	Long term exposure to elevated temperatures according to El elevated temperatures: >+120°C (from -10°C)	N 1296 - flexibility at (EN 1110)
	By long term exposure to UV radiation and elevated temperat	ures according to
	EN 1296 / EN 1297:Max. tensile strength: $600 \text{ N} / 50 \text{ mm}, 600 \text{ N} / 50 \text{ mm}$ Max. elongation: $40\%, 40\%$ Water tightness: $\geq 60 \text{ kPa}$	(EN 12311 - 1 (EN 12311 - 1 (EN 1928)
Dimensional Stability	longitudinal transversal: ≤ 0.25%	(EN 1107 - 1)
Flexibility at Low Temperature	0°C	(EN 1109)
Impact Resistance	≥ 600 mm	(EN 12691
Resistance		
Shear Resistance	of Joint: ≥ 400N / 50 mm	(EN 12317 -1
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External Fire Exposure	Class F roof (t1-4)	(ENV 1187)

System	
Information	
System Structure	Ancillary Product:
	Suitable cold applied bitumen primer - Sika <sup>®</sup> BlackSeal Primer.
Annlingtion Details	
Application Details	
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 Conditions / Limitations	
Substrate Temperature	+5°C min. / +65°C max.
Ambient Temperature	+5°C min. / +50°C max.
Substrate Moisture Content	≤ 25 %
Relative Air Humidity	≤ 85 %
Application Instructions	
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.
Notes on Application / Limitations	Read the Sika bituminous membranes installation manual 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.

Value Base	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.
Health and Safety Information	For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.
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.



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