Product Data Sheet
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Sika® BituSeal T-140 SG (0°C) (SA)

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

Description	Sika [®] BituSeal T – 140 SG (0°C) (SA) 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 sand broadcast surface and the reverse is faced with a polyethylene film to ease installation works.
Uses	 Waterproofing and damp-proofing of the exterior walls of base- ments against percolating water and damp soil
	■ Waterproofing of retaining walls
	■ Waterproofing on flat roofs under protective layers or ballast
	■ Waterproofing on flat and exposed roofs and under tiles
	■ Waterproofing on balconies/terraces under tiles
Advantages	■ Resistant to ageing
	■ Resistant to weathering
	■ 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
	■ Not resistant to root penetration
	 Suitable as top layer for multi layer installations
	■ Good resistance to mechanical impact
	Must be installed on suitable primed, uniform and smooth sub- strates such as concrete and brickwork
Tests	
Approval / Standards	Product may not be sold in EC-countries
	Installation on roofs according to EN 13707 and basements acc. to EN 13969



Product Data			
Appearance/Colours	Rolled sheet membrane, reinforced with polyester non woven fabric		
	Surface: sand broadcast, Reverse: polyethylene film to ease installation		
	Membrane thickness: 4.00 mm		
	Colour: black		
Packaging	Roll size: 1.00 m (roll width) x 10.00 m (roll length).		
	Unit weight: approx. 4.8 kg/m ²		
Storage			
Shelf life	4 years from date of production. 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.		
Technical Data			
Product Declaration	not available		
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)	
Mass per Unit Area	-	(EN 1849 -1)	
Water Tightness	≥ 60 kPa	(EN 1928 – B)	
Flexibility at low Temperature	0 °C	(EN 1109)	
Flow Resistance at elevated Temperature	≥120°C	(EN 1110)	
Max. Tensile Strength	700 N / 50mm (± 20%) 600 N / 50mm (± 20%)	(EN 12311 - 1)	
Elongation	45% (± 15%) 45% (± 15%)	(EN 12311 - 1)	
Dimensional Stability	<= 0.25%	(EN 1107-1)	
longitudinal transversal			
Resistance to Impact	≥ 600 mm	(EN 12691)	
Tear strength (nail shank)	160 N (± 30%) (nail shank)	(EN 12310 -1)	
Shear Resistance of Jiont	≥ 400N / 50 mm	(EN 12317 -1)	
Accelerated Ageing Test	No defects	(EN 1296)	
	Long term exposure to UV radiation according to EN 1297 Pass	7: (EN 1850 -1)	
	Long term exposure to elevated temperatures according flexibility at elevated temperatures >+120°C (from -10°C)	g to EN 1296 (EN 1110)	
	By long term exposure to UV radiation and elevated ter according to EN 1296 / EN 1297:	mperatures	
	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)	

Water Vapour Transmission	<=0.2 g / 24 hours / m ²	(ASTM E96)
Property		
External Fire Exposure	Class F roof (t1-4)	(ENV 1187)
Reaction to Fire	Class F	(EN 13501 - 1)
System Information		
System Structure	Ancillary Product:	
	Suitable cold applied bitumen primer - supplied	locally.
Application Details		
Substrate Quality	Concrete / brickwork / mortar screeds:	
	Clean, sound and dry, homogeneous, free from oils a loose or friable particles. Horizontal surfaces must be	
Application Conditions / Lir	nitations	
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 appl the first membrane layer as followings:	ied on the substrate for
	Application by brush, roller, or airless spray. Waiting the temperature, for the primer to complete evapor not required for the second and further membrane.	ration. (Note: Priming is
	The membrane is fully bonded to the substrate busing a gas torch. Unroll and position the membrate ylene film surface on the substrate. Roll out half a membrane reverse with the gas flame until it meltand bitumen mass, and allowing continuous unrustiumen must be visible on the underside of the brane must be firmly pressed onto the substrate entrapment using a special roller or heavy brush, with the second half of the roll.	tine roll with the polyeth- a roll length, heating the tts the polyethylene film rolling. A bead of liquid roll. The torch-on mem- te in order to avoid air
	All membranes must be overlapped by a min. 100 be finished with a roller to prevent the formation of	
Notes on Application / Limitat	ions	
	Read the Sika bituminous membranes installar stalling the bituminous membranes.	tion manual before in-
	This product shall only be used by installers, skil the installation of torch-on bituminous membran	
	Avoid damage to previously installed membranes further layers of sheet membrane.	s during the torch-on of
	The watertightness of the structure must be test completion of the membrane installation works at ments of the client's specifications.	
Value Base	All technical data stated in this Product Data She tory tests.	et are based on labora-
	Actual measured data may vary due to circumstan	ces beyond our control.
Local Restrictions	Please note that as a result of specific local regul of this product may vary from country to country. I Product Data Sheet for the exact description of the	Please consult the local

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.

Protective Measures

Wear protective clothing, gloves and goggles.

Do not smoke next to the gas flame.

Caution:

Too extensive heat on bitumen material by torching with gas flame can ignite bitumen and cause dangerous fire. Local security regulations must be observed.

Disclaimer

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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