

PRODUCT DATA SHEET

SikaShield® E35 PE EG 4 mm

4 mm Torch-On, Sheet Waterproofing and Roofing Membrane Based On SBS Modified, Reinforced Bitumen 180 G/M², With Polyethylene Film On Both Sides

DESCRIPTION

SikaShield® E35 PE EG 4 mm is a high performance elastomeric torch-on sheet waterproofing membrane. It is based on SBS modified bitumen, reinforced with a 180 g/m² polyester non-woven fabric and, faced with a polyethylene film on both the top surface and the reverse to ease installation works. Suitable for use in tropical and hot climatic conditions

USES

SikaShield® E35 PE EG 4 mm may only be used by experienced professional. It is used a waterproofing membrane for protection of various substrates in a wide range of applications.

- Waterproofing and damp-proofing of the exterior walls of basements against permanent water submersion and damp soils, for example Tanking, Pile capping and foundations.
- Waterproofing of retaining walls
- Wet areas
- Waterproofing on flat roofs under protective layers or ballast
- Waterproofing on balconies, terraces and wet-rooms under tiles

CHARACTERISTICS / ADVANTAGES

- Resistant to ageing
- Resistant to weathering
- Good tensile strength and elongation
- High resistance to water vapour
- Good dimensional stability
- Flexible at low temperatures
- Easy to install using the torch-on method
- Suitable as top layer for multilayer installations
- Good resistance to mechanical impact

PRODUCT INFORMATION

Composition	SBS Modified Bitumen
Packaging	Roll size: 1.00 m (roll width) x 10.00 m (roll length). 25 rolls per pallet
Shelf life	2 years from date of production if stored properly in original unopened packaging
Storage conditions	Rolls must be stored in their original package, in vertical position and under cool and dry conditions between temperatures of +5°C and +35°C. They must be protected from direct sunlight, rain, snow and ice.
Appearance and colour	Rolled sheet membrane, reinforced with polyester non-woven fabric

with Polyethylene film on both sides for ease of installation
Colour: Black

Effective thickness	4 mm ± 0.2 mm	(ASTM D5147)	
Resistance to impact	>700 mm	(EN 12691)	
Tensile strength	<u>Longitudinal</u>	<u>850 N/50 mm ± 20 %</u>	(ASTM D5147)
	<u>Transversal</u>	<u>600 N/50 mm ± 20 %</u>	
Elongation	<u>Longitudinal</u>	<u>45 % ± 20 %</u>	(ASTM D5147)
	<u>Transversal</u>	<u>50 % ± 20 %</u>	
Tear strength	<u>Longitudinal</u>	<u>550 N ± 30%</u>	(ASTM D5147)
	<u>Transversal</u>	<u>350 N ± 30%</u>	
Joint shear resistance	<u>Longitudinal</u>	<u>700 N/50 mm ± 20 %</u>	(EN 12317-1)
	<u>Transversal</u>	<u>500 N/50 mm ± 20 %</u>	
Foldability at low temperature	-5 °C	(EN 1109)	
Watertightness	≥60 kPa	(EN 1928-1)	
Ambient air temperature	+5 °C min. / +50 °C max.		
Substrate temperature	+5 °C min. / +65 °C max.		

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.

ECOLOGY, HEALTH AND SAFETY

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

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

Concrete / brickwork / mortar screeds: Must be installed on suitably primed, smooth, clean, dry, homogeneous and 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 SikaBit® P-11 SA or SikaBit® P-12 AE shall be applied onto the substrate (refer to product data sheet) before the first membrane layer as follows: The membrane is bonded to the substrate by the torch-on method using a gas torch. Unroll and position the membrane roll. Roll out half a roll length, heating the underside of the membrane with the gas flame until the polyethylene film and bitumen mass melts. Unroll the membrane steadily and continuously. 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 minimum 100 mm, seams must be finished with a roller. For detailed information regarding application please refer to Method Statement.

LIMITATIONS

Not resistant to root penetration. 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. Flood testing maximum 48 hours at 50 mm depth

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.

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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Product Data Sheet

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