

PRODUCT DATA SHEET

SikaShield® E65 PE EG 4 kg/m²

SBS- elastomeric torch applied sheet waterproofing membrane

DESCRIPTION

SSikaShield® E65 PE EG 4 kg/m² is a torch applied sheet waterproofing membrane on base of SBS- elastomeric bitumen, reinforced with Polyester non woven fabric, and with a PE-film on top surface and on reverse 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 waterproofing of exposed roofs
- As Multi-layer System for waterproofing of ballasted roofs

CHARACTERISTICS / ADVANTAGES

- Resistant to ageing (under protection)
- Good tensile strength and elongation
- High resistance to water vapour permeability
- Dimensional stable
- Flexible at low temperatures
- Easy to install by using flame torch method
- Not resistant to root penetration
- Must be installed on primed and smooth substrates of concrete or brickwalls

APPROVALS / CERTIFICATES

Product Declaration EN 13707 Installations on roofs according to EN 13707

PRODUCT INFORMATION

Packaging	Roll size: 1.00 m (roll width) x 10.00 m (roll length). Unit weight: approx. 4.00 kg/m ²	
Shelf life	24 months from the production date.	
Storage conditions	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.	
Appearance and colour	Rolled sheet membrane, reinforced with Polyester non woven fabric (160gr/m ²). Surface: PE-film, reverse: PE-film to ease installation works Membrane thickness: approx. 4.00 mm Colour: black	
Length	10.00 m (± 0,2%)	(EN 1848 - 1)
Width	1.00 m (±1%)	(EN 1848 - 1)
Mass per area	4.00 kg / m ² (± 5%)	(EN 1849 - 1)
Resistance to static puncture	15kg	(EN 12730)

Tensile strength	longitudinal	650 N / 50mm (± 20%)	(EN 12311 - 1)
	transversal	500 N / 50mm (± 20%)	
Elongation	Longitudinal	40% (± 20%)	(EN 12311 - 1)
	Transversal	40% (± 20%)	
Dimensional stability	Longitudinal	≤ 0.2%	(EN 1107 - 1)
	Transversal	≤ 0.2%	
Flexibility at low temperature	≤ -20°C		(EN 1109)
Flow resistance	≥ 120°C		(EN 1110)
Watertightness	≥ 60 kPa		(EN 1928 - B)
Water-vapour transmission rate	μ ≥ 20'000		(EN 1931)
External fire performance	F roof		(EN 13501-5)
Reaction to fire	Class E		(EN 13501-1)
Ambient air temperature	+5°C min. / +35°C max.		
Relative air humidity	80% max.		
Substrate temperature	+5°C min. / +35°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

This product is an article within the meaning of Regulation (EC) No 1907/2006 (REACH). It contains no substances which are intended to be released from the article under normal or reasonably foreseeable conditions of use. Therefore, there are no registration requirements for substances in articles within the meaning of Article 7.1 of the Regulation. Based on our current knowledge, this product does not contain SVHC (substances of very high concern) from the candidate list published by the European Chemicals Agency in concentrations above 0.1 % (w/w).

APPLICATION INSTRUCTIONS

This product shall only be used by installers, skilled and experienced in installation of bituminous membranes. Avoid damage on installed membrane while over torch of further 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. The membrane is not UV - stable and can not be installed on structures permanently exposed to UV light and weathering.

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® Igoflex® (product that contains solvent) consumption approx. 300g/m². 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: 100 mm, Endlaps: 150 mm. The seams must be finished with roller while installing of membranes to close gaps and capillaries.

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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