

PRODUCT DATA SHEET

SikaShield® E55 PE SA EG 1,5 mm

PEEL AND STICK, SELF-ADHESIVE, BITUMINOUS SHEET WATERPROOFING MEMBRANE FOR BELOW GROUND APPLICATIONS

DESCRIPTION

SikaShield® E55 PE SA EG 1,5 mm is a self-adhesive bituminous sheet waterproofing membrane. It's based on a SBS modified bitumen compound laminated on a HDPE film, and is reinforced with non-woven Polyester which provides highly mechanical properties and dimensional stability. Suitable for use in hot and tropical climatic conditions.

USES

SikaShield® E55 PE SA EG 1,5 mm is a cold and post-applied self-adhesive sheet waterproofing membrane. The system is applied on existing below ground concrete structures to provide damp-proofing and waterproofing:

- On horizontal slabs and protrusions
- On single and strip foundations or slabs
- On the outside of external walls

FEATURES

- Cold-applied and self-adhesive (no heating or open flames required)
- Fully bonded sheets
- Resistant to aggressive mediums in natural ground water and soil
- Controlled layer thickness
- Easy, fast and secure application, without special equipment

PRODUCT INFORMATION

Packaging	1.00 m x (10m , 15m, 20m) single roll	
	Roll Width	1.0 m +/- 1% (EN 1848-1)
	Roll length	10,15,20 m +/- 1%
Appearance and colour	Supplied as sheets in rolls, on one side a black HDPE carrier film and on the other the black bitumen compound adhesive protected with a peel-release film	
Shelf life	Rolls have a shelf-life of 12 months from date of production.	
Storage conditions	Product must be stored in original unopened and undamaged sealed packaging in dry conditions and temperatures between +5 °C and +35 °C. Store in a vertical position. Do not stack pallets of the rolls on top of each other, or under pallets of any other materials during transport or storage. Always refer to packaging	
Effective thickness	1.50 mm (+/- 5%)	
Overall thickness	Thickness includes HDPE film of approximately 1.6 mm.	

Resistance to impact	~110 N		(ASTM E154)
Tensile strength	Longitudinal	15 kN/m ± 20 %	(ASTM D5147)
	Transversal	11 kN/m ± 20 %	
	Longitudinal	550 N/50mm ± 20 %	(EN 12311-1)
	Transversal	400 N/50 mm ± 20 %	
Elongation	Longitudinal	60 % ± 20 %	(ASTM D5147)
	Transversal	55% ± 20 %	
	Longitudinal	≥ 40 %	(EN 12311-1)
	Transversal	≥ 45 %	
Resistance to tear	Longitudinal	450N (+/- 25 %)	(ASTM D4073)
	Transversal	300N (+/- 25 %)	
Service temperature	-15 °C min. / +50 °C max.		
Water absorption	~0.1 %		(ASTM D5147)
Softening point	≥100 °C		(ASTM D36)
Flexibility at low temperature	≤ -15°C		(EN 1109)
Ambient air temperature	+5 °C min. / +50 °C max.		
Relative air humidity	<80 %		
Dew point	The substrate temperature must be at least 3 °C above the dew point to reduce the risk of condensation and so limited adhesion		
Substrate temperature	+5 °C min. / +50 °C max.		
Substrate moisture content	Dry, ≤ 4 % moisture content, no rising moisture		

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.

IMPORTANT CONSIDERATIONS

The sheets must be protected immediately after completion to prevent mechanical damage. In any case don't let the membrane unprotected for more than 3 days. ▪

SikaShield® E55 PE SA EG 1,5 mm sheets are only temporarily and not permanently UV and weather resistant. ▪

For any connection of SikaShield® E55 PE SA EG 1,5 mm with other Sika membrane systems please refer to relevant product documentation, check especially regarding their bitumen compatibility or contact Sika's Technical Department for advice. ▪

In case of submerged structures / projects or exposure to chemicals contact Sika Technical Department prior to application. ▪

SikaShield® E55 PE SA EG 1,5 mm is not designed for use on structures under vehicular traffic. ▪

Low temperatures reduce the adhesion of the materials, while high temperatures soften the materials and make them more adhesive. ▪

Small wrinkles on the membrane surface don't affect the integrity of the waterproofing system. ▪ Sus-

pend laying by self-adhesion when the temperature falls below +5 °C and/or facilitate laying with hot air appliances or with a flame at temperatures below +10 °C and/or in particularly humid conditions

ECOLOGY, HEALTH AND SAFETY

This product is an article as defined in article 3 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. A safety data sheet following article 31 of the same regulation is not needed to bring the product to the market, to transport or to use it. For safe use follow the instructions given in the product data sheet. Based on our current knowledge, this product does not contain SVHC (substances of very high concern) as listed in Annex XIV of the REACH regulation or on the candidate list published by the European Chemicals Agency in concentrations above 0,1 % (w/w).

SUBSTRATE QUALITY

The substrate must be uniform, firm, smooth and free of any sharp protrusion or burrs, clean, dry, free of grease, bitumen, oil, dust and loosely adhering particles.

SUBSTRATE PREPARATION

Unevenness and surface defects (such as blowholes, voids, honeycombing, cracks, protrusions, etc.) in the surface must be pretreated and filled prior to the application, in order to prevent any subsequent damage to the membrane sheets. For more detailed information please refer to the current Method Statement for the SikaShield® E55 PE SA EG 1,5 mm membrane system. A suitable primer has to be used for an optimal bond between SikaShield® E55 PE SA EG 1,5 mm membrane sheets and the concrete substrate, for example:

- SikaBit® P-11 SA
- SikaBit® P-12 AE

APPLICATION METHOD / TOOLS

Installation procedure may vary slightly depending on site conditions. Refer to relevant standards, guidelines and good industry practice.

Priming

Apply the appropriate primer SikaBit® P-11 SA or SikaBit® P-12 AE, at the correct consumption to the prepared dry surface by brush, roller or spray and allow to dry before next application stage. Refer to the individual Product Data Sheets.

Overlaps

Side: 70 - 100 mm. End: 150 mm.

Application

Once the roll is aligned, peel back a portion of the silicone release film and press the membrane onto the substrate. When securely adhered, remove the remaining release film from the roll. Use a suitable roller (eg. steel) to press the self-adhesive membrane onto the substrate including the laps. Use the roller to push out any air bubbles out to the edge of the membrane.

Detailing

All details such as internal and external corners, upstands, vent pipes, drains, support metal work etc. must be cut and sealed effectively. Detailing must follow the recommended guidelines and good practice for self-adhered membranes.

Protection

The membrane must be protected from damage during any ongoing site activities for example with a suitable SikaShield® PB or geotextile.

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.

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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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