

PRODUCT DATA SHEET

SikaShield® E40 HDPE SA 1,5 mm

A self-adhesive, cold applied bituminous membrane with an HDPE film

DESCRIPTION

SikaShield® E40 HDPE SA 1.5mm is a bituminous, elastomeric waterproofing membrane with a thickness of 1.5 mm. It has excellent dimensional stability and is flexible at -10 °C. It has a 50mm selvedge which ensures the bond of the overlying layer and fast welding of the joints. The underside of the product has a peel-off film for easy self-adhesive application.

USES

SikaShield E40 HDPE 1.5mm is an extremely flexible, robust, adhesive and versatile membrane used for sealing and protection in a variety of applications in construction and infrastructure applications, where high performance is required.

CHARACTERISTICS / ADVANTAGES

- Fully bonded system ensures reliable waterproofing
- Easy to install, only basic tools required.
- Good mechanical properties (tensile, tear, shear)
- Excellent durability
- Permanently flexible

PRODUCT INFORMATION

Composition	Composition Top Surface	Modified bitumen Biaxially oriented and cross laminated HDPE
Packaging	Roll width	1.0 m
	Roll length	20.0 m
Shelf life	12 months	
Storage conditions	The Product must be stored in original unopened and undamaged packaging in dry conditions and temperatures between +5 °C and +35 °C. Store Storage conditions 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.	

Top surface	HDPE Film
Bottom surface	Release Paper
Thickness	1.50 ± 0.20 mm
Weight	1.60 ± 0.16 kg/m ²

TECHNICAL INFORMATION

Resistance to impact	1.3 J	(ASTM G14)
Resistance to static puncture	230 N	(ASTM E154)
Tensile strain at break	5.0 N/mm	(ASTM D1000)
Elongation at break	300%	(ASTM D1000)
Adhesion in peel	3.0 N/mm min (180° To Steel)	(ASTM D1000)
Tear strength	30 N	(ASTM D1004)
Dimensional stability	-0.2%	(ASTM D1204)
Service temperature	-10°C to 90°C	
Joint permeability to water vapour	Nil	(MOAT 27:5.1.4)
Water-vapour transmission rate	0.30 g/m ² / 24h	(ASTM E96)

APPLICATION INFORMATION

Material temperature	Application Temperature 15°C to 45°C
Substrate moisture content	≤ 5%

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

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

SUBSTRATE CONDITION

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

SUBSTRATE PREPARATION

PRIMING

- Apply Sika® Igoflex P-10+ primer at a rate of 6-8m² per litre. Note: Consumption rates will vary depending on substrate type and porosity
- Allow the primer to dry before membrane installation.

APPLICATION IMPORTANT

- At low temperatures, take care unrolling to avoid

damaging the membrane.

- In cold weather, it is preferable to warm up the surface and the tape to at least 15°C before application.
- Use suitable footwear to avoid puncturing the membrane.
- Do not apply to wet, damp or unclean surfaces.
- After unwinding the tape to the length required, peel back 5-10cm of the release liner, applying firm pressure on the membrane to ensure full bond is achieved to the substrate.
- Apply tape uniformly to avoid trapped air, which would lead to air bubbles being formed
- Use a small, hard roller to seal all overlaps and to form a fully bonded seal. Overlaps should be at least 50mm

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product 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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Product Data Sheet

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