

PRODUCT DATA SHEET

SikaShield® HB79 MG 4 mm

Hybrid bituminous membrane surfaced with granules and flexible at -25 °C

PRODUCT DESCRIPTION

SikaShield® HB79 MG 4 mm is an SBS and APAO modified bituminous roof waterproofing membrane with a thickness of 4 mm. The upper layer is APAO modified, which provides excellent heat resistance, the under layer is SBS modified, increasing the elongation and cold flexibility properties. It is reinforced with a dimensionally stable composite inlay of a fiberglass matt compressed between two layers of non-woven, spun-bond polyester fabric. The top surface is coated with mineral granules, which allows the permanent exposure to UV radiation. The underside of the product has a heat activated film for easy torch-on application.

USES

The Product is used as a waterproofing membrane for:

- Flat or sloped roofs with up to 15° pitch
- New construction or refurbishment projects
- As a cap sheet in a multi-layer roofing system

CHARACTERISTICS / ADVANTAGES

- Combines the advantages of APAO and SBS bitumen
- Easy to install by torching method
- Fully bonded
- Flexible in cold temperatures
- High durability
- High heat resistance

APPROVALS / STANDARDS

- CE marking and declaration of performance based on EN 13707:2004+A2:2009 Flexible sheets for waterproofing — Reinforced bitumen sheets for roof waterproofing — Definitions and characteristics
- BBA Certified (19/5716)

PRODUCT INFORMATION

Chemical Base	Composition	SBS and APAO modified bitumen	
	Reinforcing material	Composite inlay of a fibreglass matt compressed between two layers of non-woven spunbond polyester fabric	
Packaging	Roll width	1.0 m	(EN 1849-1)
	Roll length	6.0 m ± 0.06 m	
	Thickness	4.0 mm ± 0.2 mm	
	Refer to the current price list for available packaging variations.		
Shelf Life	36 months from date of production		

Storage Conditions	The Product must be stored in original unopened and undamaged packaging in dry conditions and temperatures between +5 °C and +35 °C. Protect the Product from direct weather exposure and sunlight. Store in a vertical position. Always refer to the packaging.	
Weight	Approximately 5.75 kg/m ²	
Colour	Top surface	Mineral Granules
	Bottom Surface	Polyethylene film

TECHNICAL INFORMATION

Resistance to Tearing (nail shank)	Longitudinal (MD)	250 N ± 75 N	(EN 12310-1)
	Transversal (CMD)	250 N ± 75 N	
Joint Peel Resistance	Longitudinal (MD)	150 N/50 mm ± 30 N/50 mm	(EN 12316-1)
	Transversal (CMD)	150 N/50 mm ± 30 N/50 mm	
Joint Shear Resistance	Longitudinal (MD)	650 N/50 mm ± 130 N/50 mm	(EN 12317-1)
	Transversal (CMD)	550 N/50 mm ± 110 N/50 mm	
External Fire Performance	BROOF (t4)		(EN 13501-5)
Reaction to Fire	Class E		(EN 13501-1)
Water Tightness	Method B, 24 hours at 60 kPa	Pass	(EN 1928)
Flexibility at low temperature	≤ -25 °C		(EN 1109)
Maximum tensile force	Longitudinal (MD)	750 N/50 mm ± 150 N/50 mm	(EN 12311-2)
	Transversal (CMD)	650 N/50 mm ± 130 N/50 mm	
Elongation at maximum tensile force	Longitudinal (MD)	(50 ± 15) %	(EN 12311-2)
	Transversal (CMD)	(50 ± 15) %	

APPLICATION INFORMATION

Ambient Air Temperature	Maximum	+40 °C
	Minimum	+5 °C
Relative Air Humidity	Maximum	80 %
Substrate Temperature	Maximum	+40 °C
	Minimum	+5 °C

VALUE BASE

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 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).

APPLICATION INSTRUCTIONS

Please refer to the SikaShield® Installation Guide.

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.

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