

## PRODUCT DATA SHEET

# SikaShield® E56 MG EG 4 mm

### Modified Bitumenous Waterproofing Membrane Polyester Reinforcement

#### DESCRIPTION

Bituminous Elastomeric Waterproofing Membrane made of a special grade of bitumen modified with SBS polymers and reinforced with Polyester non woven fabric, and with a PE-film on reverse to ease installation works

#### USES

- Roofing and Reroofing applications.
- Applications subject to moderate mechanical stress and high movements.
- Waterproofing for wet areas, mechanical rooms and terraces

#### FEATURES

- Reinforcement provides the membrane with dimensional stability and moderate mechanical properties.
- Mineral type has an excellent Good U.V resistance.
- Compatible with all types of bitumenous waterproofing systems.
- Improved chemical resistance to acidic and alkaline solutions.
- Polyester reinforcement provides the membrane with tensile strength, tear resistance and elongation.
- Enhanced thermal resistance under a wide range of temperature fluctuation,
- Suitable for structures subjected to high water pressure.
- Upper surface is covered with an anti-adhesive finish material & lower face is laminated with thermo-fusible Polyethylene film

#### PRODUCT INFORMATION

<b>Packaging</b>	Roll size: 1.0 m (roll width) x 10.00 m (roll length).		
<b>Shelf life</b>	24 months from the production date		
<b>Storage conditions</b>	Rolls should be stored in an upright position in a flat properly ventilated and protected against direct sunlight, rainwater, snow and ice etc.		
<b>Appearance and colour</b>	Surface: Slated Membrane Colour: Black. Upper surface finish colours: available in Grey, Green, Blue, Red and white		
<b>Length</b>	10.0 m (±1 %)		(EN1848-1)
<b>Width</b>	1.0 m (±1 %)		(EN 1848-1)
<b>Effective thickness</b>	4,0 mm ± 5 %		(EN 1849-1)
<b>Resistance to static puncture</b>	20 kg		(EN 12730:2001)
<b>Tensile strength</b>	Longitudinal	850 N/5 cm (±20 %)	(ASTM D- 5147)
	Transverse	550 N/5 cm (±20 %)	

<b>Elongation</b>	Longitudinal	40% (-15 %)	(ASTM D- 5147)
	Transverse	45% (-15 %)	
<b>Tear strength</b>	Longitudinal	200N (-30%)	(EN 12310-1)
	Transverse	200N (-30%)	
<b>Resistance to tear</b>	Longitudinal	550N (-30%)	(ASTM D-5147)
	Transverse	400N (-30%)	
<b>Joint shear resistance</b>	Longitudinal	700 N/5 cm ( $\pm 20$ %)	(ASTM D- 5147)
	Transverse	500 N/5 cm ( $\pm 20$ %)	
<b>Dimensional stability</b>	Longitudinal	$\pm 0.5\%$	(EN 1107-1)
	Transverse	$\pm 0.5\%$	
<b>Foldability at low temperature</b>	$\geq -15^{\circ}\text{C}$		(ASTM D- 5147)
<b>Softening point</b>	$\geq 125^{\circ}\text{C}$		(ASTM D-36)
<b>Flow resistance</b>	$110^{\circ}\text{C}$		(ASTM D- 5147)
<b>Water absorption</b>	Less than 1%		(ASTM D-5147)
<b>Watertightness</b>	100 Kpa		(EN 1928:2000)

## 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 should refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

### SUBSTRATE QUALITY

In-situ concrete: Clean, sound, smooth and dry, homogeneous, free from oils and grease, dust and loose or variable particles.

### APPLICATION METHOD / TOOLS

The application by using a propane torch or by mechanical fastening. The application of the membranes can be applied to the substrate fully bonded, semi bonded or loose laid in accordance with the waterproofing system for membrane installations.

According to the surface conditions, a primer coat of Sika Bitumen-W maybe required. Side laps should be from 8 –10 cm while end laps should be from 12–15 cm

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## 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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