

PRODUCT DATA SHEET

SikaShield® E55 MG EG 4 kg/m²

Elastomeric bituminous roof membrane torch applied surfaced with mineral granules and flexible at -15 °C

DESCRIPTION

SikaShield® E55 MG EG 4 kg/m² is a SBS modified bituminous roof waterproofing membrane which is torch applied and flexible at -15 °C. It is reinforced with a non-woven polyester fabric. The underside has a burnoff film for easy application.

USES

Roof waterproofing membrane for

- Flat and sloping roofs
- Balconies and terraces under a heavy protection layer i.e. tiles, gravel etc.
- As an exposed single-layer or as top sheet in a double layer roofing system

PRODUCT INFORMATION

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May 2023, Version 01.01

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CHARACTERISTICS / ADVANTAGES

- Weight: 4,0 kg/m²
- Top surface finish: decorative mineral granules
- Good watertightness
- Good elongation and cold flexibility
- High mechanical properties (tensile, tear)
- Easy to install by torching method

Product declaration	EN 13707: Reinforced bitumen sheets for roof waterproofing	
Composition	SBS modified bitumen	
Reinforcing material	Non-woven polyester fabric	
Packaging	Roll size: 1 m (roll width) x 10 m (roll length)	
Shelf life	12 months from date of production if stored properly in original unopened packaging.	
Storage conditions	Rolls must be stored in their original package, in vertical position and under cool and dry conditions between temperatures of +5°C and +35°C. They must be protected from direct sunlight, rain, snow and ice	
Appearance and colour	Rolled sheet membrane, reinforced with polyester non-woven fabric , with mineral slate flakes embedded on the top surface and polyethylene film on the bottom side. Colour: grey, green, other colours on request	
Length	10.0 m (±1 %)	(EN 1848-1)
Width	1.0 m (±1 %)	(EN 1848-1)
Mass per area	4.0 kg/m ² (±10 %)	(EN 1849-1)
Tensile strength	<u>Longitudinal</u> <u>Transversal</u>	<u>650 N/50 mm ± 20 %</u> <u>400 N/50 mm ± 20 %</u> (12311-1)
Elongation	<u>Longitudinal</u> <u>Transversal</u>	<u>40 % ± 20%</u> <u>40 % ± 20%</u> (12311-1)
Tear strength	<u>Longitudinal</u> <u>Transversal</u>	<u>150N ± 30 %</u> <u>150N ± 30 %</u> (12311-1)
Flexibility at low temperature	≤ -15 °C	(EN 1109)
Flow resistance	≥ 100 °C	(EN 1110)
Watertightness	60 kPa	(EN 1928-Method B)
External fire performance	B roof (t1)	(EN 13501-5)
Reaction to fire	Class E	(EN 13501-1)

Ambient air temperature	+5 °C min. / +50 °C max.
Relative air humidity	80 % max.
Substrate temperature	+5 °C min. / +50 °C max.

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

IMPORTANT CONSIDERATIONS

At low temperatures, take care unrolling to avoid damaging the membrane.

Use suitable footwear to avoid puncturing the membrane.

Do not apply to wet, damp or unclean surfaces.

Do not over-torch the membrane otherwise the polyester reinforcement (which melts at +260 °C) will be damaged making the membrane un-useable.

If membrane is insufficiently heated, this can cause reduced adhesion to the substrate, between layers or on the overlaps. If this occurs, unbonded areas must be lifted and re-torched.

If a seasonal symbol is printed on the roll's label, it is advisable to use the membrane during the indicated seas

ECOLOGY, HEALTH AND SAFETY

REGULATION (EC) NO 1907/2006 - REACH 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 supporting structure must be of sufficient structural strength to apply all new and existing layers of the roof build-up. Complete roof system must be designed and secured against wind uplift loadings. 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.

APPLICATION METHOD / TOOLS

Installation procedure

Strictly follow installation procedures as defined in method statements, application manuals and working instructions which must always be adjusted to the actual site conditions.

Priming

Apply the appropriate primer from the Sika® Igoalflex® P range, at the correct consumption to the prepared dry surface and allow to dry before next application stage. Refer to the individual Product Data Sheets.

Alignment

Unroll, align and re-roll correctly before torching.

Overlaps Side: 100mm. End: 150 mm.

Torching

Use a gas burner to heat the substrate and the backing film on the underside of membrane. When the backing film starts to melt, the membrane is ready to stick. Roll the membrane forward and press firmly against

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BUILDING TRUST



the substrate to bond. Ensure a bead of melted bitumen is visible along the full length of the overlap sides and ends when laying.

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

Protection

The membrane must be protected from damage during any ongoing site activities.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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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