

PRODUCT DATA SHEET

SikaShield® E75 MG 4,5 mm

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

DESCRIPTION

SikaShield® E75 MG 4,5 mm is an SBS modified bituminous roof waterproofing membrane with an increased fire resistance and a thickness of 4,5 mm. It is reinforced with a non-woven polyester fabric dimensionally stabilised with glass fibre and is flexible at -25 °C. The top surface is coated with mineral granules, which allows the permanent exposure to UV radiation. The underside of the product has a burn-off film for easy torch-application.

USES

The Product is used as a waterproofing membrane for:

- Balconies and terraces
- Flat or sloped roofs with up to 15 % gradient

The Product is used as a:

- Exposed single-layer or as a top sheet in a multi-layer roofing system

FEATURES

- Decorative mineral granules
- Can be painted immediately after application
- Easy to install by torching method
- Highly flexible in cold temperatures
- Fully bonded
- Very good mechanical properties (tensile, tear, shear)
- Tiles can be placed directly onto the membrane

CERTIFICATES AND TEST REPORTS

- 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

PRODUCT INFORMATION

Composition	Composition	SBS modified bitumen	
	Reinforcing material	180 g/m ² non-woven polyester fabric dimensionally stabilised with glass fibre	
Packaging	Roll width	1.0 m	(EN 1848-1)
	Roll length	8.00 m ± 0.08 m	
Appearance and colour	Top surface	Mineral Granules	
	Bottom Surface	Polyethylene film	
	Top layer colour	Refer to current price list for color variations	
Shelf life	36 months from date of production		

Storage conditions	<p>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. Pallets may be stacked on top of the rolls if all following conditions are met:</p> <ul style="list-style-type: none"> ▪ The rolls have a wooden board on top, separating them from the pallet above. ▪ The weight of the pallet above is equal to or less than the weight of the rolls. <p>Always refer to packaging.</p>		
Effective thickness	Effective thickness	4.5 mm ± 0.2 mm	(EN 1849-2)

TECHNICAL INFORMATION

Resistance to tear	Longitudinal (MD)	285 N ± 85 N	(EN 12310-1)
	Transversal (CMD)	400 N ± 120 N	
Joint shear resistance	Longitudinal (MD)	750 N/50 mm ± 150 N/50 mm	(EN 12317-1)
	Transversal (CMD)	750 N/50 mm ± 150 N/50 mm	
External fire performance	B _{roof} t2		(EN 13501-5)
Reaction to fire	Class E		(EN 13501-1)
Watertightness	Method B, 24 hours at 60 kPa	Pass	(EN 1928)
Flexibility at low temperature	≤ -25 °C		(EN 1109)
Maximum tensile force	Longitudinal (MD)	875 N/50 mm ± 175 N/50 mm	(EN 12311-1)
	Transversal (CMD)	750 N/50 mm ± 150 N/50 mm	
Elongation at maximum tensile force	Longitudinal (MD)	45 % ± 15 %	(EN 12311-1)
	Transversal (CMD)	45 % ± 15 %	

APPLICATION INFORMATION

Ambient air temperature	Maximum	+30 °C
	Minimum	+5 °C
Relative air humidity	Maximum	80 %
Substrate temperature	Maximum	+30 °C
	Minimum	+5 °C

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.

FURTHER DOCUMENTATION

Application of torch-applied membranes

Note: Always make reference to local regulations, standards, guidelines and established practice when using torch-applied membranes.

- Method Statement - Roofing build-up with bituminous membranes

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 this 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

SUBSTRATE QUALITY

SYSTEM DESIGN

Consider the following when designing the system:

- The supporting structure must be of sufficient structural strength to support all new and existing layers of the system build-up.
- If used as a roof system, the complete system must be designed to withstand and be secured against wind uplift loadings.

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

Primer selection

Note: For information on selecting the appropriate primer, contact Sika technical service.

1. Apply the appropriate Sika® primer with the required consumption onto the prepared dry surface.

Note: Refer to the individual Product Data Sheet of the primer.

1. Allow the primer to dry before membrane installation.

APPLICATION

IMPORTANT

Unrolling at low temperatures

At low temperatures, the membrane becomes less flexible.

1. Be careful when unrolling to avoid damaging the membrane.

IMPORTANT

Damage through footwear

Footwear with spikes or sharp protrusions may puncture the membrane.

1. Use footwear with a flat profile when walking over the membrane.

IMPORTANT

Damage through overheating

The polyester melts at +260 °C. If it is damaged through overheating, the membrane becomes unusable.

1. Keep moving the flame while torching to avoid overheating the membrane.

IMPORTANT

Reduced adhesion through insufficient heating

Make sure to heat the membrane sufficiently. If it is not sufficiently heated, the adhesion to the substrate, between layers or on the overlaps will be reduced.

1. If the membrane does not adhere to other elements, lift and retorch the unbonded areas.

IMPORTANT

Application at less than +5 °C

When applying the membranes at temperatures lower than +5 °C, use heating equipment to ensure that the substrate temperature is within the given temperature range.

IMPORTANT

Application on sloped surfaces

For slopes with an inclination greater than 15 %, multi-layered roofs must be carefully designed and, if necessary, integrated with mechanical fastenings.

Seasonal symbol

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

Tackiness at high temperatures

Note: When laying the membrane at high temperatures, the integral adhesive will become 'tacky' and may restrict laying operations.

ALIGNMENT

IMPORTANT

Avoid coinciding joints

To avoid coinciding joints, lay the membranes parallel to one another. When applying on another bituminous membrane, make sure to straddle the overlaps of the previous layer.

1. Unroll the membrane.
2. Align the membrane.
3. Re-roll the membrane before application.

MEMBRANE OVERLAPS

1. Overlap the membranes by a minimum of 100 mm on the sides and 150 mm on each end or as specified by the supplier.
2. At the end overlap, cut off a corner measuring 100 mm per side at an angle of 45°.

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FASTENING

When used as a roofing sheet, the membrane can be mechanically fixed to the substrate by using the correct type of fasteners.

The number of fixings, type and position depend on wind uplift forces to be resisted, pull-out strength of the fixing screws, the elastic limit of the membrane and the appropriate safety factors.

Contact Sika Technical Service for additional information.

Suitable substrates for fastening

- Concrete
- Wood
- Metal
- Perlite screed
- Bituminous membranes
- Coatings (check the compatibility)

TORCHING

1. Heat the substrate and the backing film on the underside of the membrane with a gas burner.

→ When the backing film starts to melt, the membrane is ready to stick.

1. Roll the heated membrane forward and press it firmly against the substrate to bond it.
2. Make sure a bead of melted bitumen is visible along the full length of the overlap sides and ends when laying.

Suitable substrates for torching

- Concrete
- Perlite screed
- Bituminous membranes with a smooth surface
- Coatings (check the compatibility)
- Brick masonry
- Cementitious screeds

DETAILING

1. Use a sharp knife to cut in all details such as internal and external corners, upstands, vent pipes, drains, support metalwork etc.

Refer to the relevant method statement for further information on detailing.

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

Any information or suggestions for use concerning Sika's products, which we either in writing or orally have given buyers or end-users of the product, have been given in good faith based on our own experiences and based on approved praxis and the technological and scientific knowledge on the time of giving such suggestions and information, which are given without any type of guarantees, and which do not lead to any further responsibility from Sika Danmark A/S, besides what is stated in the sales agreement in question. The buyer or end-user should themselves investigate or otherwise make sure, that our products are suitable for the use in question and further make sure that the products are kept and used correct and in agreement with the published rules and considering the actual conditions in order to avoid damages or less satisfactory results. Any order is accepted and any deliverance is affected according to the general terms of sales and delivery from Sika Danmark A/S, which are considered known and accepted, and which could be handed out when asked for. Our catalogues are not up-dated automatically. The present product data sheet is only for use in Denmark. Values stated in the present product data sheet should be seen as recommended, unless stated otherwise.

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