

## PRODUCT DATA SHEET

## SikaShield® E65 S Pre EG 4 mm

High-performance waterproofing membrane composed of SBS modified elastomeric bitumen surfaced with silicon dioxide crystals and flexible at -20 °C

## DESCRIPTION

SikaShield® E65 S Pre EG 4 mm is an SBS modified bituminous waterproofing membrane with a thickness of 4.0 mm. It is reinforced with a nonwoven polyester which provides highly mechanical properties and dimensional stability. The top surface is coated with silicon dioxide crystals, which ensures the bond of the overlying layer. The underside of the product has a burn-off film for easy torch-application.

## USES

The Product is used as a waterproofing membrane for: Pre-applied membrane designed for horizontal blind-side waterproofing applications (below grade and tanking works).

- Horizontal reinforced concrete slabs, decks, podiums and protrusions
  - Basements and other below ground structures
  - Retaining and protective walls
- The Product is used as a: Base sheet in multi-layer systems. Single layer under heavy protection.
- Please note: The Product is not suitable for roofs permanently exposed to UV radiation.

## FEATURES

- Easy to install by torching method
- Fully bonded
- High durability
- can be coated by liquid bitumen products like Sika igolflex 2XX
- Very good mechanical properties (tensile, tear, shear)
- Absolute impermeability to water.
- High elasticity at severe low temperature.

## 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

CE marking and declaration of performance based on EN 13969:2004/A1:2006 Flexible sheets for waterproofing — Bitumen damp proof sheets including bitumen basement tanking sheets — Definitions and characteristics

## PRODUCT INFORMATION

Composition	Composition	SBS modified bitumen
	Reinforcing material	non-woven polyester fabric
Packaging	Roll length	1.0 m (EN 1848-1)
	Roll width	10.0 m
Appearance and colour	Top surface	silicon dioxide crystals
	Bottom surface	Polyethylene film
Shelf life	24 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.	

Store 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.

<b>Effective thickness</b>	4.0 mm ± 0.2 mm		(EN 1849-1)
<b>Tensile strength</b>	Longitudinal (MD)	800 N/50 mm ± 150 N/50 mm	(EN 12311-1)
	Transversal (CMD)	500 N/50 mm ± 100 N/50 mm	
<b>Elongation</b>	Longitudinal (MD)	45 % ± 20 %	(EN 12311-1)
	Transversal (CMD)	50 % ± 20 %	
<b>Resistance to tear</b>	Longitudinal (MD)	150 N ± 50 N	(EN 12310-1)
	Transversal (CMD)	200 N ± 50 N	
<b>Joint shear resistance</b>	Longitudinal	650 N/50 mm ± 120 N/50 mm	(Standard)
	Transversal	450 N/50 mm ± 80 N/50 mm	
<b>Reaction to fire</b>	Class E		(EN 13501-1)
<b>Watertightness</b>	Method B: 24 hours at 60 Pass kPa		(EN 1928)
<b>Flexibility at low temperature</b>	-15 : -20 °C		(EN 1109)
<b>Ambient air temperature</b>	Minimum	+5 °C	
	Maximum	+40 °C	
<b>Relative air humidity</b>	Maximum	80 %	
<b>Substrate temperature</b>	Minimum	+5 °C	
	Maximum	+40 °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.

## 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.

### 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 punc-

ture the membrane.

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

#### IMPORTANT

Damage through overheating

The polyester reinforcement 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.

#### 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.

. Unroll the membrane.

. Align the membrane.

. Re-roll the membrane before application.

#### MEMBRANE OVERLAPS

Overlap the membranes by a minimum of 100 mm on the sides and 150 mm on each end.

At the end overlap, cut off a corner measuring 100 mm per side at an angle of 45°.

. Weld the overlaps with great care until you see a trickle of melted mixture about 10 mm wide coming out along the line of the overlap.

Suitable substrates for fastening

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

#### TORCHING

- 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.
- Roll the heated membrane forward and press it firmly against the substrate to bond it.
- 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.

## MAINTENANCE INSTRUCTIONS

Check the functionality of the auxiliary works, flashings, drainage outlets, overflow pipes etc.

Remove any leaves, moss and other vegetation, which could cause ponding on the roof and overload the drainage system.

To maintain the function of the roof waterproofing membrane during its lifespan, it is advisable to arrange periodically for inspection of the

membrane and detailing.

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## 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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#### Product Data Sheet

SikaShield® E65 S Pre EG 4 mm  
April 2025, Version 01.01  
020725101000242609

SikaShieldE65SPreEG4mm-en-EG-(04-2025)-1-1.pdf