BUILDING TRUST

PRODUCT DATA SHEET

SikaShield® E66 PE EG RT 4 mm

Anti-root Reinforced Elastomeric Bituminous Waterproofing Membrane torch applied.

DESCRIPTION

SikaShield® E66 PE EG RT 4 mm is an SBS modified bituminous roof waterproofing membrane with a thickness of 4 mm. The compound is additive with specific substances that prevent roots from penetrating the membrane structure. These embedded substances withstand high temperatures, do not migrate into the soil, and are not washed away by water.It is reinforced with a non-woven polyester fabric . The top surface is coated with a polyethylene foil, which ensures the bond of the overlying layer. The underside of the product has a burn-off film for easy torch-application.

USES

SikaShield® E66 PE EG RT 4 mm may only be used by ex-perienced professionals. It is used as a waterproofing membrane for protection of various substrates in a wide range of application.

- Roof gardens
- Roof garden with final waterproofing layer in contact with soil
- Waterproofing on flat roofs under protective
- Waterproofing and damp-proofing of basements against permanent water submersion and damp soils, including pile capping and foundations
- Waterproofing of retaining walls , layers or ballast
- Waterproofing on balconies, terraces and wetrooms under screed / tiles

FEATURES

- Good resistance to root penetration
- Good resistance to ageing
- Good tensile strength and elongation
- Good resistance to water vapour
- Good dimensional stability
- Flexible at low temperatures
- Easy to install using the torch-on method
- Good resistance to mechanical impact

PRODUCT INFORMATION

Packaging	**Roll size**	
	Length	10,00 m ± 1%
	Width	1,00 m ± 1%
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. Protect the Product from direct weather exposure and sunlight. Store in a ver-	

	tical position.		
Length	10.0 m (±1 %)		(EN 1848-1)
Width	1.0 m (±1 %)		(EN 1848-1)
Effective thickness	4 mm ±0.2 mm		(EN 1849-1)
Resistance to static puncture	~1200 N, ~20 mm		(ASTM E154)
Tear strength	Longitudinal	550N (-30%)	(ASTM D5147)
	Transversal	400N (-30%)	
Joint shear resistance	Longitudinal	900 N/50 mm (-25%)	(EN 12311-1)
	Transversal	600 N/50 mm (-25%)	
Resistance to water penetration	7 bar (70 m) No leakage		(ASTM D5385)
Flow resistance	≥100 °C		(EN 1110)
Flexibility at low temperature	-15 : -20		(EN 1109)
Maximum tensile force	Longitudinal	950 N/50 mm (-25%)	(EN 12311-1)
	Transversal	650 N/50 mm (-25%)	
Elongation at maximum tensile force	Longitudinal	50% (-20)	(EN 12311-1)
	Transversal	55% (-20)	
Ambient air temperature	Minimum	+5 °C	
	Maximum	+40 °C	
Substrate temperature	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.

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.

SURFACE PREPARATION

Use the appropriate preparation equipment to achieve the required substrate quality.

APPLICATION

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® Igolflex® or SikaBit® 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: 100 mm. 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 the substrate to bond. Ensure a bead of melted bitumen
is visible along the full length of the overlap sides and ends when laying. Embossed membrane versions require less torching.

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 and after ongoing site activities, for example with Sikashield® Protection Sheet.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from coun-

try 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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