BUILDING TRUST

PRODUCT DATA SHEET

SikaShield® AL-E Flam

Elastomeric Bitumen vapour control layer with glass fleece inlay torch applied

DESCRIPTION

SikaShield® AL-E Flam (Thickness 3.5 mm) is an elastomeric bitumen vapour control layer reinforced with a polyester-aluminium laminate and a glass fleece with longitudinal thread.
The top side is finely granulated with quartz sand and the bottom side is laminated with a polyethylene torch-foil. The top side longitudinal overlap area has an onesided PET-foil edge strip.

USES

- Vapour control layer for flat roofs on concrete substrates

FEATURES

- Elastic behaviour at low temperatures
- Vapour & radon barrier
- Seam foil strip
- Suitable as temporary seal (max. 4 months)

CERTIFICATES AND TEST REPORTS

CE-Marking and declaration of performance to

- EN 13969 - Bitumen sheets for basement
- EN 13970 - Bitumen vapour control layers

PRODUCT INFORMATION

Composition	coating	elastomeric bitumen
	reinforcement	glass fleece + polyester-aluminium-laminate
Packaging	single rolls	
Appearance and colour	top	fine granule, foil-laminated edge trim
	bottom	foil-laminated
Shelf life	If stored properly the product retains its properties.	
Storage conditions	Store vertical and protected from extreme external influence such as heat, cold, moisture etc.	
Visible defects	free of visible defects	(EN 1850-1)
Length	7.5 m	(EN 1848-1)
Width	1 m	(EN 1848-1)
Thickness	3.5 mm	(EN 1849-1)
Straightness	< 20 mm / 10 m	(EN 1848-1)

Max. operating pressure	4.4 kg/m² [± 10%]	(EN 1849-1)

TECHNICAL INFORMATION

Tensile strength	**maximum tensile force**		(EN 12311-1)
	lengthwise	≥ 500 N / 50 mm	
	crosswise	≥ 300 N / 50 mm	
Elongation	**elongation at maximum tensile force**		(EN 12311-1)
	lengthwise	≥ 2 %	
	crosswise	≥ 2 %	
Tear strength	**nail shank**		(EN 12310-1)
	lengthwise	≥ 100 N	
	crosswise	≥ 100 N	
Reaction to fire	class E		(EN 13501-1, EN ISO 11925-2)
Water-vapour transmission rate	s_d = 1.500 m [± 10%]		(EN 1931 - procedure A)
Watertightness	100 kPa		(EN 1928 - procedure B)
Flow resistance	+70 °C		(EN 1110)
Flexibility at low temperature	-15 °C		(EN 1109)

APPLICATION INFORMATION

Ambient air temperature	We recommend a minimum temperature of +5 °C during the application.
Substrate temperature	We recommend a minimum temperature of +5 °C during the application.

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.

ECOLOGY, HEALTH AND SAFETY

Fresh air ventilation must be ensured, when working (welding or torching) in closed rooms.

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).

APPLICATION INSTRUCTIONS

General provisions on substrate quality:
The substrate must be uniform, firm, smooth and free of any sharp protrusion or burrs, clean, dry, free of grease, oil, dust and loosely adhering particles.
FURTHER INFORMATION
The product is suitable as a temporary waterproofing solution for a maximum of 4 months. In principle, when using a temporary waterproofing solution, it is important to ensure that it is securely attached to the substrate and to carefully execute and check the overlap seam. During use as a temporary waterproofing solution, the membrane must be protected from direct mechanical and static loads, e.g., frequent foot traffic and/or loads, etc. After a prolonged period of inactivity, the vapor barrier layer must be checked to ensure it is functioning properly and, if necessary, repaired before further roofing work is continued.

Please note that a temporary waterproofing has lower performance characteristics than a properly dimensioned waterproofing.

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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