

PRODUCT DATA SHEET

SikaShield® E-KV-5S-wf/Premium

Bituminous root barrier for use within green roof systems

PRODUCT DESCRIPTION

SikaShield® E-KV-5S-wf/Premium (Thickness 5.2 mm) is a root resistant elastomeric bitumen membrane reinforced with a polyester fleece. The membrane is finished on the top surface with a mineral slate and the under side with a polyethylene film for torch application.

USES

Cap sheet for green roof systems

CHARACTERISTICS / ADVANTAGES

- Elastic behaviour at low temperatures
- Root resistant to EN 13948 and FLL
- UV resistant

APPROVALS / STANDARDS

CE-Marking and Declaration of Performance to

- EN 13707 - Bitumen sheets for roof waterproofing

Root resistant to

- EN 13948

PRODUCT INFORMATION

Chemical Base	Elastomeric polymer modified bitumen	
Reinforcing Material	Polyester Fleece	
Packaging	Roll	
Appearance / Colour	Top	Mineral slate
	Bottom	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.	
Length	5 m ± 0.06m	(EN 1848-1)
Width	1 m	(EN 1848-1)
Thickness	5.2 mm	(EN 1849-1)
Straightness	< 20 mm / 10 m	(EN 1848-1)
Mass per unit area	6.0 kg/m ² [± 10%]	(EN 1849-1)

TECHNICAL INFORMATION

Resistance to Impact	≥ 2.000 mm	(EN 12691 - A+B)
Hail Resistance	HW 5 (7) * * according to system testing	
Resistance to Static Load	≥ 20 kg	(EN 12730 - A+B)
Resistance to Root Penetration	passed	(EN 13948, FLL - procedure)
Tensile Strength	maximum tensile force	(EN 12311-1)
	lengthwise	≥ 1.000 N / 50 mm
	crosswise	≥ 1.000 N / 50 mm
Elongation	elongation at maximum tensile force	(EN 12311-1)
	lengthwise	≥ 35 %
	crosswise	≥ 35 %
Dimensional Stability	≤ 0.1 %	(EN 1107-1)
Tear Strength	nail shank	(EN 12310-1)
	lengthwise	≥ 300 N
	crosswise	≥ 300 N
Joint Peel Resistance	peel strength	(EN 12316-1)
	lengthwise	≥ 150 N / 50 mm
	crosswise	≥ 150 N / 50 mm
Joint Shear Resistance	shear resistance	(EN 12317-1)
	lengthwise	≥ 800 N / 50 mm
	crosswise	≥ 800 N / 50 mm
Reaction to Fire	class E	(EN 13501-1, EN ISO 11925-2)
Artificial Ageing	properties after artificial ageing	(EN 1296)
	flexibility at low temperature (EN 1109)	-25 °C
	flow resistance (EN 1110)	+110 °C
Water Vapour Transimission	s _d = 400 m [± 20 %]	(EN 1931 - procedure A)
Water Tightness	400 kPa	(EN 1928 - procedure B)
Flow resistance	+120 °C	(EN 1110)
Flexibility at low temperature	-36 °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.

VALUE BASE

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

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

Please refer to the SikaShield® Installation Guide

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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