

PRODUCT DATA SHEET

SikaShield® P47 PE EG 4 mm

Modified Bitumen Plastomeric Waterproofing Membrane Composite Polyester Reinforcement

DESCRIPTION

Bituminous Plastomeric Waterproofing Membrane made of a special grade of bitumen modified with APP polymers with heavy weight composite polyester (P) of non-woven polyester armoured with glass fiber filaments which provides high mechanical properties and dimensional stability and is enhanced with the addition of special chemical additive to provide the membrane with Rot-proof features to stop the growth of bacteria over the waterproofing layer ..

USES

- Waterproofing of green area in roofs
- Lining of flower box
- Waterproofing for wet areas, mechanical rooms and terraces

CHARACTERISTICS / ADVANTAGES

- Compatible with all types of bituminous waterproofing systems.
- Absolute impermeability to water
- High dimensional stability
- Resistant to root penetration
- Resistant to soil chemicals and salts up to certain limit
- Improved chemical resistance to acidic and alkaline solutions.
- Polyester reinforcement provides the membrane with tensile strength, tear resistance and elongation.
- Supper low temperature resistance up to -15° C,
- Rot Proof.

PRODUCT INFORMATION

Packaging	Roll size: 1.0 m (roll width) x 10.00 m (roll length).		
Shelf life	24 months from the production date		
Storage conditions	Rolls should be stored in an upright position in a flat properly ventilated and protected against direct sunlight, rainwater, snow and ice etc.		
Appearance and colour	Rolled sheet membrane, reinforced. Surface: Smooth Membrane thickness: 4.00 mm Upper surface: covered with Polyolefin film. Lower surface: laminated with Polyolefin film.		
Thickness	4 mm (±0.2 mm)		
Resistance to static puncture	L4		(UEAtc)
Resistance to dynamic puncture	I4		(UEAtc)
Tensile strength	Longitudinal	900 N/5 cm (±20 %)	(ASTMD-5147)
	Transverse	650 N/5 cm (±20 %)	

Elongation	Longitudinal	40 % (± 20 %)	(ASTM D-5147)
	Transverse	50 % (± 20 %)	
Tear strength	Longitudinal	180 N (± 30 %)	(EN 12310-1)
	transverse	200 N (± 30 %)	
Resistance to tear	Longitudinal	500 N (± 20 %)	(ASTM D-5147)
	Transverse	400 N (± 20 %)	
Joint shear resistance	Longitudinal	700 N (± 20 %)	(ASTM D-5147)
	Transverse	550 N (± 20 %)	
Dimensional stability	Longitudinal	$\pm 0.5\%$	(UNI 8202)
	Transverse	$\pm 0.5\%$	
Foldability at low temperature	-15 to -10		(ASTM D-5147)
Flow resistance	120°C		(ASTM D-5147)
Water absorption	1% Max		(ASTM D-5147)
Permeability to water vapour	80'000 μ		(UNI 8202)
Resistance to UV exposure	Pass		(ASTM G-53)

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

For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

SUBSTRATE QUALITY

In-situ concrete:

Clean, sound, smooth and dry, homogeneous, free from oils and grease, dust and loose or variable particles

APPLICATION METHOD / TOOLS

The application of SikaShield® P47 PE EG 4 mm is done by using a propane torch or by mechanical fastening. The application of the membranes can be applied to the substrate fully bonded, semi bonded or loose laid in accordance with the waterproofing system for membrane installations. According to the surface conditions, a primer coat of Sika Bitumen-W maybe required. Side laps should be from 8 –10 cm while end laps should be from 12–15 cm.

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LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for 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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