

PRODUCT DATA SHEET

SikaShield® P36 PE EG 4 mm

Bitumenous Waterproofing Membrane

DESCRIPTION

Bituminous Waterproofing Membrane made of a special grade of bitumen modified with polymers and reinforced with composite Polyester with glass fibers which acts as the internal reinforcement providing high mechanical strength and high dimensional stability.

USES

- Roofing or re-roofing works for sloped and flat protected roofs.
- Applications subject to moderate mechanical stress.
- Waterproofing for wet areas, mechanical rooms and terraces.
- Waterproofing of underground structures, retaining walls and under raft foundation.

FEATURES

- Reinforcement provides the membrane with dimensional stability and moderate mechanical properties.
- Compatible with all types of bitumenous waterproofing systems.
- Improved chemical resistance to acidic and alkaline solutions.
- Flexible at low temperature up to -6.
- Polyester reinforcement provides the membrane with tensile strength, tear resistance and elongation.
- Environmentally friend.
- Enhanced thermal resistance under a wide range of temperature fluctuation,

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 Colour: Black Upper surface: covered with Polyolefin film. Lower surface: laminated with Polyolefin film.		
Thickness	4,0 mm ± 5 %		(EN 1849-1)
Resistance to static puncture	20 Kg		(EN 12730:2001)
Resistance to dynamic puncture	1500 mm		(EN 12961)
Tensile strength	Longitudinal	800 N/ 5 cm ± 20%	(EN 12311-1)
	Transverse	550 N/ 5 cm ± 20%	

Elongation	Longitudinal	≥ 35%	(EN 12311-1)
	Transverse	≥ 40%	
Tear strength	Longitudinal	650 N ± 30%	(ASTM D-5147)
	Transverse	500 N ± 30%	
Joint shear resistance	Longitudinal	800 N/ 5 cm ± 20%	(EN 12317-1)
	Transverse	550 N/ 5 cm ± 20%	
Flexibility at low temperature	-2 to -6°C		(EN 1109)
Softening point	≥150°C		(according to ASTM D-36)
Flow resistance	120°C		(EN 1110)
Water absorption	Less than 1 %		(ASTM D-5147)
Permeability to water vapour	80'000 μ		(EN 1931)
Resistance to UV exposure	Pass		(EN 1296)

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

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 BituSeal-P4 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.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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.