

PRODUCT DATA SHEET

SikaProof®-200

Pre-applied fully bonded FPO sheet waterproofing membrane for tunnels

PRODUCT DESCRIPTION

SikaProof®-200 is a fully bonded, pre-applied, two-layer waterproofing membrane for drained tunnels. It consists of a flexible polyolefin (FPO) base layer membrane with a hybrid bonding layer that forms a dual bond, chemical and mechanical, with the in-situ concrete lining.

USES

SikaProof®-200 is used for:

- Waterproofing of tunnels against water ingress

Please note:

- The Product is not suitable for permanent exposure to liquids with temperatures above +40 °C

CHARACTERISTICS / ADVANTAGES

- Easy to apply
- The hybrid bonding layer acts as a signal layer
- Suitable for contact with acidic (soft) water and alkaline environments
- Optimised flexibility, tensile strength and multi-axial elongation
- Flexible in cold temperatures
- Fully bonded to the concrete lining with a chemical and mechanical dual bond
- No lateral water underflow between the concrete structure and the membrane
- No need of waterstops

PRODUCT INFORMATION

Chemical Base	Membrane: FPO/PE	
Packaging	Roll width	2 m
	Roll length	specified
Refer to the current price list for available packaging variations.		
Appearance / Color	Top layer surface texture	structured
	Bottom layer surface texture	smooth
	Top layer colour	whitish
	Bottom layer colour	black
Shelf Life	18 months from date of production	
Storage Conditions	The Product must be stored in original unopened and undamaged sealed packaging in dry conditions and temperatures between +5 °C and +35 °C. Protect the Product from direct weather exposure. Store in a horizontal 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 the packaging.	

Effective Thickness	Thickness including the functional layer: 2.4 mm Thickness of the waterproofing membrane: ≥ 2.0 mm
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Mass per Unit Area	2.30 kg/m ² (-0.11 kg/m ² / +0.23 kg/m ²)	(EN 1849-2)
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TECHNICAL INFORMATION

Impact Strength	Method A, 500 g falling weight	Watertight at 1000 mm drop height	(EN 12691)
Resistance to Static Puncture	3.3 kN ± 0.3 kN		(EN ISO 12236)
Tensile Strength	Longitudinal (MD) Transversal (CMD)	17.0 N/mm ² ± 2.0 N/mm ² 17.0 N/mm ² ± 2.0 N/mm ²	(EN ISO 527-3)
Elongation at Break	Longitudinal (MD) Transversal (CMD)	> 650 % > 650 %	(EN ISO 527-3)
Burst Strength	D = 0.2 m	≥ 50 %	(EN 14151)
Dimensional Change after Heat	Longitudinal (MD), aged 6 hours at +80 °C Transversal (CMD), aged 6 hours at +80 °C	< 2 % < 2 %	(EN 1107-2)
Tear Strength	Longitudinal (MD), Method B: V = 50 mm/min Transversal (CMD), Method B: V = 50 mm/min	> 45 kN/m > 45 kN/m	(ISO 34-1)
Low Temperature Bend	No cracks at -20 °C		(EN 495-5)
Coefficient of Thermal Expansion	2.07 $\times 10^{-4}$ K ⁻¹		(ISO 11359-1)
Combustibility	Class E		(EN 13501-1)
Chemical Resistance	Change in tensile strength and elongation, saturated lime wash, aged 56 days at +50 °C Change in tensile strength and elongation, 10 % sulphuric acid test, aged 56 days at +50 °C	< 10 % (MD/CMD) < 10 % (MD/CMD)	(EN 14415)
UV Exposure	Not permanently UV stable		
Resistance to Weathering	Not resistant to permanent weathering		
Resistance to Oxidation	Change in tensile strength, aged 90 days at +85 °C Change in elongation, aged 90 days at +85 °C	≤ 20 % ≤ 20 %	(EN 14575)
Microbiological Resistance	Change in tensile strength, aged 16 weeks Change in elongation, aged 16 weeks	< 15 % (MD/CMD) < 15 % (MD/CMD)	(EN 12225)

Service Temperature	Maximum Minimum	+40 °C -10 °C
Adhesion in peel	Peel strength on concrete, $\geq 100 \text{ N}/50 \text{ mm}$ after 28 days	(DIN EN 1372)
Water permeability	$< 10^{-6} \text{ m}^3 \cdot \text{m}^{-2} \cdot \text{d}^{-1}$	(EN 14150)

SYSTEM INFORMATION

System Structure	Ancillary products: <ul style="list-style-type: none"> ▪ Sika® FlexoDrain ▪ Sikaplan® Geotextiles ▪ Sika® Drains ▪ Sikaplan® W Tundrains ▪ Sikaplan® WP Drainage Angles ▪ Sikaplan® WT Disc ▪ Sikaplan® WT Tape System
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BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

ENVIRONMENTAL, HEALTH AND SAFETY

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

SUBSTRATE QUALITY

For information on substrate quality and pre-treatment, refer to the following Sika® method statement:

- SikaProof-200 for waterproofing mined tunnels

APPLICATION

IMPORTANT

Application by trained personnel

The application of this Product must only be carried out by an applicator that is trained or approved by Sika. The applicator must also be experienced in this type of application.

IMPORTANT

Ventilation in confined spaces

Always ensure good ventilation when applying the Product in a confined space.

For information on application, contact Sika Technical Services.

OTHER RESTRICTIONS

See Legal Disclaimer.

LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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