

PRODUCT DATA SHEET

SikaProof® A+ 20

FPO sheet membrane for pre-applied and post-applied fully bonded below ground waterproofing

DESCRIPTION

SikaProof® A+ 20 is a polyolefin (FPO) based sheet membrane for below ground waterproofing of reinforced concrete structures. A special hybrid bonding layer on the membrane forms a full and permanent dual bond with the concrete structure. The membrane can be pre-applied or post-applied. Joints are sealed with cold-applied tapes or by thermal jointing using appropriate heating equipment. The total thickness is 2.5 mm with a 2-mm-thick waterproofing layer. Suitable for use in hot and tropical climatic conditions.

USES

SikaProof® A+ 20 is used for:

- Damp-proofing, waterproofing and concrete protection for basements and other below-ground concrete structures.

SikaProof® A+ 20 is suitable for use on:

- Precast reinforced concrete structures
- Cast-in-place reinforced concrete structures
- Existing reinforced concrete structures

FEATURES

- Dual bond: full and permanent mechanical and chemical bond with the concrete structure
- Can be used as a pre-applied and post-applied system
- Joints can be sealed using thermal jointing or cold applied tapes
- No lateral water migration between concrete and membrane
- Excellent barrier to radon
- Fast and easy installation
- High flexibility and crack-bridging capabilities
- High watertightness tested according to various standards
- Good resistance to aggressive conditions in natural ground water and soil
- Temporarily resistant to weathering and UV exposure
- Can be combined with other approved Sika® waterproofing and joint sealing systems

PRODUCT INFORMATION

Composition	Membrane layer	Flexible Polyolefin (FPO)
	Hybrid layer	Cement modified polymer
Packaging	Roll width	1 m or 2 m
	Roll length	15 m or specified
Refer to the current price list for available packaging variations.		
Colour	Top layer colour	Light yellow
	Bottom layer colour	Grey
Shelf life	24 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 +30 °C. 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	<u>Overall thickness</u>	<u>2.50 (-0.15 / +0.25) mm</u>	(EN 1849-2)
	<u>Waterproofing layer thickness</u>	<u>2.00 (-0.1 / +0.2) mm</u>	
Mass per area	2.40 (-0.12 / +0.24) kg/m ²		(EN 1849-2)

TECHNICAL INFORMATION

Resistance to impact	<u>Method A, Hard support</u>	<u>≥ 1000 mm</u>	(EN 12691)
	<u>Method B, Soft support</u>	<u>≥ 800 mm</u>	
Tensile strength	<u>Longitudinal (MD)</u>	<u>≥ 750 N/50mm</u>	(EN 12311-2)
	<u>Transversal (CMD)</u>	<u>≥ 750 N/50mm</u>	
Joint shear resistance	≥ 100 N/50 mm		(EN 12317-2)
Reaction to fire	Class E		(EN 13501-1)
Accelerated ageing in alkaline environment	<u>Tested for 28 days at +23 °C</u>	<u>Pass</u>	(EN 1847)
	<u>Tested for 24 hours at 60 kPa</u>	<u>Pass</u>	(EN 1928)
Watertightness	<u>Method B, 24 hours at 60 kPa</u>	<u>Pass</u>	(EN 1928)
Durability of watertightness against ageing	<u>Aged 12 weeks at +70 °C, tested 24 hours at 60 kPa</u>	<u>Pass</u>	(EN 1928; EN 1296)
Durability of watertightness against chemicals	<u>Calcium hydroxide, aged 28 days at +23 °C, tested 24 hours at 60 kPa</u>	<u>Pass</u>	(EN 1928; EN 1847)
Service temperature	<u>Maximum</u>	<u>+35 °C</u>	(ÖBV Guideline Tunnel Waterproofing)
	<u>Minimum</u>	<u>-10 °C</u>	
Adhesion in peel	≥100 N/ 50 mm to concrete after 28 days		(DIN EN 1372)
Resistance to lateral water migration	<u>Up to 7 bar</u>	<u>Pass</u>	(ASTM D5385 / D5385M)
Elongation at maximum tensile force	<u>Longitudinal (MD)</u>	<u>≥ 600 %</u>	(EN 12311-2)
	<u>Transversal (CMD)</u>	<u>≥ 600 %</u>	

APPLICATION INFORMATION

Ambient air temperature	<u>Maximum</u>	<u>+45 °C</u>
	<u>Minimum</u>	<u>+5 °C</u>
Substrate temperature	<u>Maximum</u>	<u>+60 °C</u>
	<u>Minimum</u>	<u>+5 °C</u>

SYSTEM INFORMATION

System structure

The following products are part of the pre-applied system:

- SikaProof® A+ 20 sheet membrane
- SikaProof® Tape A+ N for detailing and for internal jointing
- SikaProof® Sandwich Tape

The following products are part of the post-applied system:

- SikaProof® A+ 20 sheet membrane
- SikaProof® Adhesive-03 AE
- SikaProof® ExTape-100

Complementary products are available for detailing and joint solutions.

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.

FURTHER DOCUMENTATION

- Method Statement - SikaProof® A+
- Application manual SikaProof® A+
- Application Manual SikaProof® A+ Post-Applied

ECOLOGY, 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

APPLICATION

IMPORTANT

Strictly follow installation procedures

Strictly follow installation procedures as defined in Method Statements, application manuals and working instructions which must always be adjusted to the actual site conditions.

IMPORTANT

Exposure to UV or weathering

The Product is not resistant to permanent UV exposure or weathering.

1. Protect as soon as possible but not later than 90 days after application

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.

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ISO 9001, 14001, 45001 – SGS
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ISO 9001, 14001 – SGS
Sika Saudi Arabia Limited
ISO 9001, 14001 – TÜV
Sika MB Construction Chemicals LLC
Sika Construction Chemicals for Manufacturing LLC
ISO 9001 – LMS
Sika MB LLC

All products are supplied under a management system certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and ISO 45001.



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