

PRODUCT DATA SHEET

SikaProof® A+ 20

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

PRODUCT 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.

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

CHARACTERISTICS / ADVANTAGES

- 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

Chemical Base	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.	
Color	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

Overall thickness	2.50 (-0.15 / +0.25) mm	(EN 1849-2)
Waterproofing layer thickness	2.00 (-0.1 / +0.2) mm	

Mass per Unit Area

2.40 (-0.12 / +0.24) kg/m ²	(EN 1849-2)
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TECHNICAL INFORMATION

Impact Strength	Method A, Hard support Method B, Soft support	≥ 1000 mm ≥ 800 mm	(EN 12691)
Tensile Strength	Longitudinal (MD) Transversal (CMD)	≥ 750 N/50mm ≥ 750 N/50mm	(EN 12311-2)
Joint Shear Resistance	≥ 100 N/50 mm		(EN 12317-2)
Combustibility	Class E		(EN 13501-1)
Accelerated Ageing in Alkaline Environment Tensile Strength	Tested for 28 days at +23 °C Tested for 24 hours at 60 kPa	Pass Pass	(EN 1847) (EN 1928)
Water Tightness	Method B, 24 hours at 60 kPa	Pass	(EN 1928)
Durability of Water Tightness against Ageing	Aged 12 weeks at +70 °C, tested 24 hours at 60 kPa	Pass	(EN 1928; EN 1296)
Durability of Water Tightness against Chemicals	Calcium hydroxide, aged 28 days at +23 °C, tested 24 hours at 60 kPa	Pass	(EN 1928; EN 1847)
Service Temperature	Maximum Minimum	+35 °C -10 °C	(ÖBV Guideline Tunnel Waterproofing)
Adhesion in peel	≥100 N/ 50 mm to concrete after 28 days		(DIN EN 1372)
Resistance to lateral water migration	Up to 7 bar	Pass	(ASTM D5385 / D5385M)
Elongation at maximum tensile force	Longitudinal (MD) Transversal (CMD)	≥ 600 % ≥ 600 %	(EN 12311-2)

APPLICATION INFORMATION

Ambient Air Temperature	Maximum Minimum	+45 °C +5 °C
Substrate Temperature	Maximum Minimum	+60 °C +5 °C

SYSTEM INFORMATION

System Structure	<p>The following products are part of the pre-applied system:</p> <ul style="list-style-type: none">▪ SikaProof® A+ 20 sheet membrane▪ SikaProof® Tape A+ N for detailing and for internal jointing▪ SikaProof® Sandwich Tape <p>The following products are part of the post-applied system:</p> <ul style="list-style-type: none">▪ SikaProof® A+ 20 sheet membrane▪ SikaProof® Primer-02▪ SikaProof® Adhesive-02▪ SikaProof® ExTape-100 <p>Complementary products are available for detailing and joint solutions.</p>
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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.

AVAILABILITY/WARRANTY

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

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

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

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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