

PRODUCT DATA SHEET

SikaProof® A+ 12

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

DESCRIPTION

SikaProof® A+ 12 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 or post-applied. Joints are sealed with cold-applied tapes or by thermal jointing using appropriate heating equipment. The total thickness is 1.75 mm with a membrane thickness of 1.20 mm.

USES

SikaProof® A+ 12 may only be used by experienced professionals.

The Product is used for:

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

Suitable for use on:

- Precast reinforced concrete structures
- Cast-in-situ 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 and post-applied system
- Joints can be sealed using thermal jointing
- No lateral water migration between concrete and membrane

PRODUCT INFORMATION

Chemical base

Membrane Layer
Hybrid Layer

Flexible Polyolefin (FPO)
Cement modified polymer

- 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

ENVIRONMENTAL INFORMATION

- Environmental Product Declaration (EPD) in accordance with EN 15804. EPD independently verified by BRE Global

APPROVALS / STANDARDS

- CE marking and declaration of performance based on EN 13967:2012 Flexible sheets for waterproofing — Plastic and rubber damp proof sheets including plastic and rubber basement tanking sheet — Definitions and characteristics
- Watertightness functional test PG FBB Part 1, WISS-BAU, Test report No. 2019-231-1
- Watertightness functional test PG FBB Part 1, WISS-BAU, Test report No. 2018-275-1
- Watertightness functional test PG FBB Part 1, WISS-BAU, Test report No. 2018-276-1
- Radon diffusion coefficient, SikaProof® A+ 12, Dr. Kemski, Test report No. 2022081101e

Product Data Sheet

SikaProof® A+ 12

March 2023, Version 06.01

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Packaging	Roll width	Roll length	
	1.00 m or 2.00 m	20 m	
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 +30 °C. Store in a horizontal position. Do not stack pallets on top of each other.		
Appearance / Colour	Membrane layer	Light yellow	
	Bonding layer	Grey	
Effective thickness	Total Thickness (=deff)	(1.75 +0.18 / -0.09) mm	(EN 1849-2)
	Membrane Thickness	(1.20 +0.12 / -0.06) mm	
Mass per unit area	(1.65 +0.17 / -0.09) kg/m²		(EN 1849-2)

SYSTEM INFORMATION

System structure	<p>The following products are part of the pre-applied system:</p> <ul style="list-style-type: none"> ▪ SikaProof® A+ 12 ▪ SikaProof® Tape A+ ▪ SikaProof® Sandwich Tape <p>The following products are part of the post-applied system:</p> <ul style="list-style-type: none"> ▪ SikaProof® Primer-02 ▪ SikaProof® Adhesive-02 ▪ SikaProof® A+ 12 ▪ SikaProof® ExTape-100 <p>Complementary products are available for detailing and joint solutions.</p>
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TECHNICAL INFORMATION

Resistance to impact	≥ 400 mm		(EN 12691)
Tensile strength	Longitudinal (MD) Method	≥750 N / 50mm	(EN 12311-2)
	A		
	Transversal (CMD) Method	≥750 N / 50mm	
	A		
Elongation at break	Longitudinal (MD) Method	≥1100 %	(EN 12311-2)
	A		
	Transversal (CMD) Method	≥1100 %	
	A		
Adhesion in peel	≥100 N/ 50 mm to concrete after 28 days		(DIN EN 1372)
Joint shear resistance	≥100 N / 50mm		(EN 12317-2)
Service temperature	Maximum	+35 °C	
	Minimum	-10 °C	
Water tightness	Method B 24 h 60 kPa	Pass	(EN 1928)
Resistance to lateral water migration	Up to 7 bar	Pass	(ASTM D5385 / D5385M)
Permeability to Radon	(4.74 × 10⁻¹³–6.36 × 10⁻¹³) m²/s		(ISO/TS 11665-13)
Accelerated ageing in alkaline environment tensile strength	28 d +23 °C	Pass	(EN 1847)
	Method B 24 h 60 kPa	Pass	(EN 1928)
Durability of water tightness against chemicals	28 d +23 °C	Pass	(EN 1847)

	Method B 24 h	Pass	(EN 1928)
Durability of water tightness against ageing	12 Weeks	Pass	(EN 1847)
	Method B 24 h 60 kPa	Pass	(EN 1928)
Reaction to fire	Class E		(EN 13501-1)

APPLICATION INFORMATION

Ambient air temperature	Maximum	+45 °C
	Minimum	+5 °C
Substrate temperature	Maximum	+60 °C
	Minimum	+5 °C

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.

FURTHER DOCUMENTS

- Sika Method Statement: SikaProof A+
- Sika Application Manual: SikaProof A+ Pre-Applied
- Sika Application Guideline: SikaProof A+ Thermal Jointing
- Sika 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 this 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

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.

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APPLICATION

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

For information on application, refer to the following Sika® method statement:

- Sika Method Statement: SikaProof A+

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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