

## 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 1.20 mm thick waterproofing layer.

### USES

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

SikaProof® A+ 12 is used for:

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

SikaProof® A+ 12 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 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

### ENVIRONMENTAL INFORMATION

- Specific Environmental Product Declaration (EPD) in accordance with EN 15804. EPD independently verified by BRE Global
- Contributes towards satisfying Materials and Resources (MR) Credit: Building product disclosure and optimization — Environmental Product Declarations under LEED® v4
- Contributes towards satisfying Materials and Resources (MR) Credit: Building Product Disclosure and Optimization — Material Ingredients under LEED® v4

### 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 INFORMATION

Chemical Base	Membrane Layer	Flexible Polyolefin (FPO)
	Hybrid Layer	Cement modified polymer
Packaging	Roll width	1.00 m or 2.00 m
	Roll length	20 m
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	Total Thickness (=deff)	(1.75 +0.18 / -0.09) mm (EN 1849-2)
	Thickness Waterproofing Layer	(1.20 +0.12 / -0.06) mm
Mass per Unit Area	(1.65 +0.17 / -0.09) kg/m <sup>2</sup> (EN 1849-2)	

## TECHNICAL INFORMATION

Resistance to Impact	Method A, Hard support	≥ 400 mm	(EN 12691)
	Method B, Soft support	≥ 400 mm	
Tensile Strength	Longitudinal (MD)	≥ 750 N/50mm	(EN 12311-2)
	Transversal (CMD)	≥ 750 N/50mm	
Joint Shear Resistance	≥ 100 N/50 mm		(EN 12317-2)
Reaction to Fire	Class E		(EN 13501-1)
Accelerated Ageing in Alkaline Environment Tensile Strength	Tested for 28 days at +23 °C	Pass	(EN 1847)
	Tested for 24 hours at 60 kPa	Pass	(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	+35 °C	
	Minimum	-10 °C	
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)

Permeability to Radon  $(4.74 \times 10^{-13} - 6.36 \times 10^{-13}) \text{ m}^2/\text{s}$  (ISO/TS 11665-13)

Elongation at maximum tensile force

Longitudinal (MD)	$\geq 1100 \%$	(EN 12311-2)
Transversal (CMD)	$\geq 1100 \%$	

## APPLICATION INFORMATION

Ambient Air Temperature

Maximum	+45 °C
Minimum	+5 °C

Substrate Temperature

Maximum	+60 °C
Minimum	+5 °C

## SYSTEM INFORMATION

**System Structure**

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

- SikaProof® A+ 12 sheet membrane
- SikaProof® Tape A+ N for detailing and for internal jointing
- SikaProof® Sandwich Tape

Complementary products are available for detailing and joint solutions.

## 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

- Method Statement - SikaProof® A+
- Application manual SikaProof® A+

## 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

### 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

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

- Method Statement - SikaProof® A+

## LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

## 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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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