

# PRODUCT DATA SHEET

## SikaProof® A+ 08

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



### DESCRIPTION

SikaProof® A+ 08 is a polyolefin (FPO) based sheet membrane for below ground waterproofing of reinforced concrete structures. It is loose laid onto prepared substrates or formwork before fixing reinforcement and casting concrete. A special hybrid bonding layer on the membrane forms a permanent bond with the fresh concrete. Overlap joints are sealed using cold-applied tapes. The total thickness is 1,35 mm with a membrane thickness of 0,80 mm.

### USES

Damp-proofing, waterproofing and concrete protection for basements and other below ground concrete structures against ground water ingress. Suitable for use on:

- Reinforced concrete base slabs
- Reinforced concrete walls with single and double-faced formwork
- Extension and reconstruction works
- Prefabricated structures

### CHARACTERISTICS / ADVANTAGES

- Pre-applied: Fixed before placing reinforcement and casting concrete
- Dual bond: Mechanical and adhesive bond with fresh concrete
- High flexibility and crack-bridging capabilities
- No lateral water migration between the concrete structure and the membrane system
- High watertightness tested according to various standards
- Fully and permanently bonded to the reinforced concrete structure
- Resistant to aggressive conditions in natural ground water and soil
- Easy to install with fully adhered joints
- Temporarily resistant to weathering and UV exposure during construction
- Can be combined with other approved Sika® Waterproofing / Joint Sealing Systems

### APPROVALS / CERTIFICATES

- CE Marking and Declaration of Performance to EN 13967 - Flexible sheets for waterproofing - Damp proofing and basement tanking

### PRODUCT INFORMATION

Composition	Membrane Layer	Flexible Polyolefin (FPO)	
	Hybrid Layer	Cement modified polymer	
Packaging	Product	Roll width	Roll length
	SikaProof® A+ 08	1,00 m or 2,00 m	25 m
Appearance / Colour	Light yellow membrane containing a light grey bonding layer		
Shelf life	18 months shelf life from date of production		

<b>Storage conditions</b>	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 packaging.		
<b>Effective thickness</b>	<u>Total Thickness (=deff)</u>	<u>1,35 mm (-5/+10 %)</u>	(EN 1849-2)
	<u>Membrane Thickness</u>	<u>0,80 mm (-5/+10 %)</u>	
<b>Mass per unit area</b>	1,20 kg/m <sup>2</sup> (-5/+10 %)		(EN 1849-2)

## TECHNICAL INFORMATION

<b>Resistance to impact</b>	≥ 300 mm		(EN 12691)
<b>Tensile strength</b>	<u>Machine direction</u>	<u>≥ 500 N/50 mm</u>	(EN 12311-2 Method A)
	<u>Cross direction</u>	<u>≥ 500 N/50 mm</u>	
<b>Modulus of elasticity in tension</b>	≤ 35 N/mm <sup>2</sup> (-/+10 %)		(EN ISO 527-3)
<b>Elongation</b>	<u>Machine direction</u>	<u>≥ 1000 %</u>	(EN 12311-2 Method A)
	<u>Cross direction</u>	<u>≥ 1000 %</u>	
<b>Adhesion in peel</b>	≥ 1,60 N/mm (to concrete after 28 d)		(EN 1372)
<b>Joint shear resistance</b>	≥ 100 N/50 mm		(EN 12317-2)
<b>Reaction to fire</b>	Class E		(EN 13501-1)
<b>Accelerated ageing in alkaline environment</b>	Pass (28 d/+23 °C)		(EN1847)
	Pass (Method B, 24 h/60 kPa)		(EN1928)
<b>Watertightness</b>	Pass (Method B, 24 h/60 kPa)		(EN 1928)
<b>Resistance to lateral water migration</b>	Pass, up to 7 bar		(ASTM D5385 Modified)
<b>Durability of watertightness against ageing</b>	Pass (12 weeks)		(EN 1847)
	Pass (Method B, 24 h/60 kPa)		(EN 1928)
<b>Durability of watertightness against chemicals</b>	Pass (28 d/+23 °C)		(EN 1847)
	Pass (Method B, 24 h)		(EN 1928)
<b>Service temperature</b>	-10 °C min. / +35 °C max.		

## SYSTEMS

<b>System structure</b>	<p>The following system products must be used:</p> <ul style="list-style-type: none"> <li>▪ SikaProof® A+ 08 sheet membrane</li> <li>▪ SikaProof® Tape A+ self-adhesive tape for internal jointing</li> <li>▪ SikaProof® Sandwich Tape for internal jointing</li> </ul> <p>Alternative products:</p> <ul style="list-style-type: none"> <li>▪ SikaProof® Tape-150 A self-adhesive tape for internal jointing</li> </ul> <p>Ancillary products:</p> <ul style="list-style-type: none"> <li>▪ Accessories and complementary products are available to provide detailing and connection solutions.</li> </ul>
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## APPLICATION INFORMATION

<b>Ambient air temperature</b>	+5 °C min. / +45 °C max
<b>Substrate temperature</b>	+5 °C min. / +60 °C max

# APPLICATION INSTRUCTIONS

## EQUIPMENT

- Tape measure
- Marking pen
- Razor knife
- Scissors
- Pressure roller
- Clean lint-free cloth
- Metal straight edge for cutting
- Protective sheet for cutting

## SUBSTRATE QUALITY

SikaProof® A+ 08 membrane must be applied on a sufficiently stable substrate to avoid movement during the construction works. Substrate surface must be smooth, uniform and clean. Large gaps and voids (≥ 12–15 mm) must be filled before membrane installation. Substrate can be damp or slightly wet, ponding water must be avoided. Suitable membrane fixing substrates include:

- Concrete blinding
- Formwork
- Rigid thermal insulation
- Plywood sheets / forms

## APPLICATION METHOD / TOOLS

### Installation procedure

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

### Installation method - General

After substrate conditions have been fulfilled, the waterproofing membrane is installed by loose laying onto horizontal / inclined substrates or fastening onto vertical substrates.

### Overlap and transverse joints

All overlap and transverse joints must be bonded and sealed either with cold applied SikaProof® Tape A+ or SikaProof® Sandwich Tape. Alternatively, all overlap and transverse joints can be bonded and sealed with SikaProof® Tape-150 A.

### Installation method - Detailing

Form all details and connections using the appropriate SikaProof® ancillary products outlined in the Sika® Method Statement: SikaProof® A+.

### Construction and expansion joints

For sealing these types of joints, use additional Sika® Joint Solutions.

### Inspection and quality control of installation

A final inspection before placing concrete must be carried out to ensure the complete membrane system has been correctly installed, any damage repaired and the surface of the hybrid-bonding layer is clean.

### Concrete placement

Place concrete directly onto or against the membrane within 90 days after installation. Alternatively, concrete must be placed within 30 days after installation when using SikaProof® Tape-150 A.

### Formwork removal

After removing the formwork, all penetrations such as

shuttering anchors, any membrane damage and construction joints must be sealed using the appropriate SikaProof® A+ 08 ancillary products or complementary Sika Waterproofing Systems.

### Backfilling protection

After formwork removal and before backfilling. SikaProof® A+ 08 system must be protected with an appropriate protection sheet as soon as possible or at the latest within 90 days.

## FURTHER INFORMATION

- Sika® Method Statement: SikaProof® A+
- Sika® Application Manual: SikaProof® A+

## IMPORTANT CONSIDERATIONS

Installation work must only be carried out by Sika® trained, approved or competent contractors experienced in this type of application.

- Reference must also be made to the Sika® Method Statement: SikaProof® A+ System for more detailed information.
- Do not install SikaProof® A+ 08 membrane during continuous or prolonged rain, snowfall or sand-storm.
- The substrate application surface must be clean with no standing water.
- If SikaProof® A+ 08 is to be applied under wet conditions or temperatures below +5 °C. Exceptions are possible under special circumstances with appropriate precautions. Contact Sika® Technical Services for more information.
- Additional Sika® Joint Sealing Solutions (minimum SikaSwell®) must be used for connections, around penetrations and for construction and expansion joints.
- Concrete must be placed within 90 days after membrane system installation. Alternatively, concrete must be placed within 30 days after installation when using SikaProof® Tape-150 A.
- Adequate concrete quality (mix design and workmanship) is required to achieve optimum adhesion of the membrane system to the concrete.
- SikaProof® A+ 08 membrane is not permanently UV and weather resistant. Therefore, the membrane system must not be installed on structures where it will be permanently exposed to UV light.
- After formwork removal, the membrane system (membrane side) must be protected with appropriate protection sheets as soon as possible or at the latest before backfilling or within 90 days after installation.
- To ensure the most suitable type of membrane is selected for the project, refer to section 'Project Design' of the 'Sika® Method Statement: SikaProof® A+ System' or contact Sika® Technical Services for more information.

## 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.

## 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.

## ECOLOGY, HEALTH AND SAFETY

### REGULATION (EC) NO 1907/2006 - REACH

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).

## 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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#### Product Data Sheet

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