BUILDING TRUST

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. A special hybrid bonding layer on the membrane forms a full and permanent dual bond with the concrete structure. Joints are sealed with cold-applied tapes. The total thickness is 1.35 mm with a membrane thickness of 0.80 mm. Suitable for use in hot and tropical climatic conditions.

USES

The Product is used for:
- Damp-proofing, waterproofing and concrete protection for basements and other below ground concrete structures.
- 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
- No lateral water migration between concrete and membrane
- 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

SUSTAINABILITY

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

APPROVALS / CERTIFICATES

- 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. 2019-231-5-1
- Watertightness functional test PG FBB Part 1, WISS-BAU, Test report No. 2019-231-4-1

PRODUCT INFORMATION

Composition	Membrane Layer	Flexible Polyolefin (FPO)
	Hybrid Layer	Cement modified polymer
Packaging	**Roll width**	**Roll length**
	1.00 m or 2.00 m	25 m
	Refer to the current price list for available packaging variations.	
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 and colour	Membrane layer	Light yellow	
	Bonding layer	Grey	
Effective thickness	Total Thickness (=deff)	(1.35 +0.14 / -0.07) mm	(EN 1849-2)
	Membrane Thickness	(0.80 +0.08 / -0.04) mm	
Mass per area	(1.20 +0.12 / -0.06) kg/m²		(EN 1849-2)

TECHNICAL INFORMATION

Resistance to impact	≥ 300 mm		(EN 12691)
Tensile strength	Longitudinal (MD) Method A	≥500 N / 50mm	(EN 12311-2)
	Transversal (CMD) Method A	≥500 N / 50mm	
Elongation at break	Longitudinal (MD) Method A	≥1000 %	(EN 12311-2)
	Transversal (CMD) Method A	≥1000 %	
Adhesion in peel	≥80 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	
Watertightness	Method B 24 h 60 kPa	Pass	(EN 1928)
Resistance to lateral water migration	Up to 7 bar	Pass	(ASTM D5385 / D5385M)
Accelerated ageing in alkaline environment	28 d +23 °C	Pass	(EN 1847)
	Method B 24 h 60 kPa	Pass	(EN 1928)
Durability of watertightness against chemicals	28 d +23 °C	Pass	(EN 1847)
	Method B 24 h	Pass	(EN 1928)
Durability of watertightness against ageing	12 Weeks	Pass	(EN 1847)
	Method B 24 h 60 kPa	Pass	(EN 1928)
Reaction to fire	Class E		(EN 13501-1)

SYSTEM INFORMATION

System structure	The following products are part of the pre-applied system: ▪ SikaProof® A+ 08 ▪ SikaProof® Tape A+ ▪ SikaProof® Sandwich Tape Complementary products are available for detailing and joint solutions.

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 Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

FURTHER INFORMATION

- Sika Method Statement: SikaProof® A+
- Sika Application Manual: SikaProof® A+ Pre-Applied
- Sika Application Manual: SikaProof® A+ Post-Applied

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 sandstorm.
- The substrate application surface must be clean with no standing water.
- If SikaProof® A+ 08 has 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.
- 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.

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

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.

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.

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.

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.

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

SIKA NORTHERN GULF
Bahrain / Kuwait
Tel: +973 177 38188
info@bh.sika.com
gcc.sika.com

SIKA SOUTHERN GULF
UAE / Oman / SIC
Tel: +971 4 439 8200
info@ae.sika.com
gcc.sika.com

Sika Saudi Arabia
Riyadh / Jeddah / Dammam
Tel. +966 11 217 6532
info@sa.sika.com
gcc.sika.com