BUILDING TRUST

PRODUCT DATA SHEET

SikaProof® A-08

FPO SHEET MEMBRANE FOR PRE-APPLIED FULLY BONDED BELOW GROUND WATERPROOFING

DESCRIPTION

SikaProof® A-08 is an embossed polyolefin FPO sheet membrane for pre-applied fully bonded below ground waterproofing of reinforced concrete structures. Membrane thickness 0.8 mm. SikaProof® A-08 is cold-applied without heat or open flames to prepared substrates or onto formwork before fixing reinforcement and concrete placement. The membrane has self-adhesive longitudinal strips for bonding overlap joints and is laminated with a unique sealant and a non-woven fleece backing layer which creates a bond with the cast concrete.

USES

SikaProof® A-08 may only be used by experienced professionals.

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 both single and double-faced formwork
- Extension and reconstruction works
- Prefabricated structures
- Shotcrete structures

CHARACTERISTICS / ADVANTAGES

- Fully bonded to the reinforced concrete structure
- No lateral water underflow between the concrete structure and the membrane system
- Validated high watertightness
- High flexibility and crack-bridging
- Pre-applied, before fixing reinforcement and concrete placement
- Easy to install with fully adhered joints (no welding required)
- Cold-applied (no pre-heating or open flames)
- Good tear and impact resistant properties
- Temporarily resistant to weathering and UV-light during construction
- Highly durable and resistant to aging
- Resistant to aggressive elements in natural ground water and soil
- Can be combined with other approved Sika Waterproofing / Joint Sealing Systems

ENVIRONMENTAL INFORMATION

- BRE Environmental Product Declaration (EPD) available

APPROVALS / STANDARDS

- CE Marking and Declaration of Performance to EN13967 - Flexible sheets for waterproofing – Damp proofing and basement tanking
- Agrement Certificate, SikaProof® A-08 & A-12, BBA,Certificate No.13-5075
- Test Certificate, DIN EN 13967, SikaProof®A-08, MPANRW, Certificate No.P-22-MPANRW-8945-1
- CCT57, SikaProof®-Sika Bit®, SOCOTEC, No.601ROE-AD9247
- NZBC, SikaProof®A, BRANZ, Appraisal No.852
- Test Report, Pipes & Formwork Spacers, SikaProof®A-08, WISSBAU, No.2010-212-6
- Test Report, Pile Head, SikaProof®A-08, WISSBAU, No.2010-212-7
- Certified Green Label product under Singapore Green Building Council (SGBC), Preformed Waterproofing, Certificate No. SGBP 2018-1690

PRODUCT INFORMATION

Chemical Base	Membrane layer	Flexible Polyolefin (FPO)	
	Sealant grid	Polyolefin (PO)	
	Fleece layer	Polypropylene (PP)	
Packaging	Rolls wrapped individually in a yellow PE-film.		
	Product	**Roll width**	**Roll length**
	SikaProof® A-08	1.00 or 2.00 m	25 m
	Refer to current price list for packaging variations		
Appearance / Colour	Light yellow sheet membrane, laminated with a white fleece layer		
Shelf Life	18 months from date of production		
Storage Conditions	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.		
Product Declaration	EN 13967:Flexible sheets for waterproofing – Damp proofing and basement tanking		
Effective Thickness	Total thickness (= deff)	1.35 mm (-5 / +10 %)	(EN 1849-2)
	Membrane thickness	0.80 mm	
Mass per Unit Area	1.15 kg/m² (-5 / +10 %)		(EN 1849-2)

TECHNICAL INFORMATION

Resistance to Impact	≥ 250 mm		(EN 12691)
Resistance to Root Penetration	Pass		(CEN/TS 14416)
Tensile Strength	Machine direction	≥ 450 N/50mm	(EN 12311-1)
	Cross direction	≥ 450 N/50mm	
Modulus of Elasticity in Tension	A ≤ 65 N/mm² (±10 %)		(EN ISO 527-3)
Elongation	Machine direction	≥ 700 %	(EN 12311-1)
	Cross direction	≥ 1000 %	
Resistance to tear (nail shank)	Machine direction	≥ 400 N	(EN 12310-1)
	Cross direction	≥ 450 N	
Joint Shear Resistance	≥ 200 N / 50 mm		(EN 12317-2)
Reaction to Fire	Class E		(EN 13501-1)
Accelerated Ageing in Alkaline Environment Tensile Strength	Pass (28 d / +23 °C)		(EN 1847)
	Pass (Method B, 24 h/ 60 kPa)		(EN 1928)
Water Vapour Transimission	0.51 g/(m²·24 h) (+23 °C / 75 % r.h.)		(EN 1931)
	μ = 58 000 (±20 %)		
	Sd = 78 m		
Durability of Water Thightness against Ageing	Pass (12 weeks)		(EN 1296)
	Pass (Method B, 24 h / 60 kPa)		(EN 1928)
Durability of Water Tightness against Chemicals	Pass (28 d / +23 °C)		(EN 1847)
	Pass (Method B, 24 h / 60 kPa)		(EN 1928)
Service Temperature	-10 °C min. / +35 °C max.		

Resistance to lateral water migration	Pass, up to 7bar	(ASTM D 5385 modified)
Permeability to Radon	(2.0 ± 0.3) × 10^{-12} m^2/s	(Certificate E-214/2011)
Permeability to Methane	140 ml/(m^2·d) (±10 %)	(ISO 7229)

APPLICATION INFORMATION

Ambient Air Temperature	minimal +5 °C / maximum +35 °C
Substrate Temperature	Substrate bonding surface: minimal +5 °C (Refer to important considerations for more information)

SYSTEM INFORMATION

System Structure	The following system products must be used: ▪ SikaProof® A-08 sheet membrane ▪ SikaProof® A-08 Edge preformed L-shaped sheet membrane ▪ SikaProof® Tape-150 A self-adhesive tape for internal jointing ▪ SikaProof® ExTape-150 self-adhesive tape for external jointing Ancillary products: ▪ Accessories and complementary products are available to provide detailing and connection 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

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 'Method Statement - SikaProof® A ' and 'Application Manual - SikaProof® A 'for more detailed information.
- Do not install SikaProof® A-08 membrane during continuous or prolonged rain or snowfall.
- The substrate application surface must be clean with no standing water.
- Do not use SikaProof® A-08 for applications in hot climates. Use the specially designed SikaProof® A-08 HC membrane.
- 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 30 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 an appropriate protection sheet 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 4 'Project Design' of the 'Method Statement - SikaProof® A System' or contact Sika® Technical Services for more information.

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 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

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
Reference must be made to further documentation where applicable, such as relevant method statement, application manual and installation or working instructions.
Installation method - General
After substrate conditions have been fulfilled, the waterproofing membrane is installed by loose laying with the fleece facing upwards or inwards onto horizontal / inclined substrates or fastening onto vertical substrates. Pre-formed L-shaped SikaProof® A-08 Edge sheets are used for corner and edge details. Overlap joints are sealed using cold-applied self-adhesive strips or tapes. No heat or open flames are required for installing any part of the membrane system.
Overlap and transverse joints
All overlap and transverse joints must be bonded and sealed either with self-adhesive strips lengthways on the edge of the membrane sheet or using the SikaProof® ExTape-150 on the outside face and SikaProof® Tape-150 A on the inside face and all transverse joints.
Detailing
Form all details and connections using the appropriate SikaProof® ancillary products outlined in the '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 fleeced surface is clean.
Concrete placement
Place concrete directly onto or against the membrane within 30 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

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.

Sika (Singapore) Pte Ltd.
28 Tuas South Ave 8
Singapore 637648
Phone: +65 6861 0632
Fax: +65 6862 3915
Email: sales@sg.sika.com
www.sika.com.sg