

PRODUCT DATA SHEET

SikaProof®-808

Pre-applied fully bonded FPO sheet membrane for basement waterproofing

DESCRIPTION

SikaProof®-808 is a FPO based sheet membrane for below ground waterproofing of reinforced concrete structures. It is loosely laid onto a prepared substrate below the base slab before fixing reinforcement and casting concrete. A special hybrid bonding layer on the membrane forms a permanent bond with the fresh concrete and prevents lateral water migration between the membrane and the concrete structure. Overlap joints are sealed using cold-applied tapes or by thermal jointing. The total thickness is 1.00 mm.

USES

The product is used for:

- Damp-proofing, waterproofing and concrete protection for basements against ground water ingress.

Suitable for use on:

- Reinforced concrete base slabs
- Extension and reconstruction work

CHARACTERISTICS / ADVANTAGES

- Pre-applied: Fixed before placing reinforcement and casting concrete

- A+ Technology: Integral functional layer for chemical and mechanical bond with concrete structure
- High flexibility and crack-bridging capabilities
- No lateral water migration between concrete structure and membrane system
- Easy to install with fully adhered joints
- Overlap joints are sealed using thermal jointing or cold-applied tapes

ENVIRONMENTAL INFORMATION

- Singapore Green Building Product Certificate, SikaProof®-808, No. SGBP 3838

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
- General testing ASTM, Admaterials Technologies, Test report No. T20-16252
- Watertightness functional test PG FBB Part 1, WISS-BAU, Test report No. 2021-083-1
- Watertightness functional test PG FBB Part 1, WISS-BAU, Test report No. 2020-378-1

PRODUCT INFORMATION

Chemical base	Membrane Layer	FPO
	Bonding Layer	Cement modified polymer (A+ Technology)
Packaging	Roll width	Roll length
	1.00 m or 2.00 m	25 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	Colour	Light grey
	Surface texture	Rough surface on A+ bonding layer
Effective thickness	Total thickness (1.00 +0.10 / -0.05) mm Thickness TPO layer 0.80 mm	(EN 1849-2)
Mass per unit area	(1.00 +0.10 / -0.05) kg/m ²	(EN 1849-2)

TECHNICAL INFORMATION

Resistance to impact	Method B	≥ 800 mm	(EN 12691)
Resistance to static puncture	≥ 500 N		(ASTM E154)
Tensile strength	Longitudinal (MD) Method A	≥ 400 N/50 mm	(EN 12311-2)
	Transversal (CMD) Method A	≥ 400 N/50 mm	
	Longitudinal (MD) Method A	≥ 10 MPa	(ASTM D412)
	Transversal (CMD) Method A	≥ 10 MPa	
Elongation at break	Longitudinal (MD) Method A	≥ 500 %	(EN 12311-2)
	Transversal (CMD) Method A	≥ 500 %	
	Longitudinal (MD) Method A	≥ 700 %	(ASTM D412)
	Transversal (CMD) Method A	≥ 700 %	
Crack bridging ability	No cracks occurred after 100 cycles at 3.2 mm width		(ASTM C1305)
Adhesion in peel	≥ 60 N/50 mm with 90° angle after 28 days		(ASTM D903)
Resistance to tear (nail shank)	≥ 300 N		(EN 12310-1)
Joint shear resistance	≥ 100 N/50 mm		(EN 12317-2)
Service temperature	Maximum	+35 °C	
	Minimum	-10 °C	
Foldability at low temperature	No cracks at -29 °C		(ASTM D1970)
Water tightness	Method B (24 hours, 60 kPa)	Pass	(EN 1928)
Resistance to lateral water migration	Up to 7 bar (71 m)	Pass	(ASTM D5385 / D5385M)
Water vapour transmission	0.05 (g/m ² ·24h)		(ASTM E96)
Exposure to Bitumen	28 days, +70 °C	Pass	(EN 1548)
	Method A (24 hours, 60 kPa)	Pass	(EN 1928)

Durability of water tightness against chemicals	28 days, +23 °C	Pass	(EN 1847)
	24 hours, 60 kPa	Pass	(EN 1928)
Durability of water tightness against ageing	12 Weeks, +70 °C	Pass	(EN 1296)
	Method B (24 hours, 60 kPa)	Pass	(EN 1928)
Reaction to fire	Class E		(EN 13501-1)

SYSTEM INFORMATION

System structure	The following system products must be used in the pre-applied system: <ul style="list-style-type: none"> ▪ SikaProof®-808 sheet membrane ▪ SikaProof® Tape-120 for detailing and for internal jointing
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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

Refer to the following Sika® Method Statement: Sika Method Statement: SikaProof®-808

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

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.

SUBSTRATE QUALITY

SikaProof®-808 membrane must be applied on a sufficiently stable substrate to avoid movement during the construction works.

The substrate surface must be smooth, uniform and clean. Use Geotextile $\geq 300 \text{ g/m}^2$ to protect the product from sharp aggregates on the blinding concrete surface.

The substrate can be damp or slightly wet, avoid ponding water.

APPLICATION

IMPORTANT

Application by trained personnel

The application of this product must only be carried out by an applicator that is trained or approved by Sika. The applicator must also be experienced in this type of application.

IMPORTANT

Unsuitable weather conditions for application

Do not install the membrane during continuous or prolonged rain, snowfall or sandstorm.

IMPORTANT

Penetrations and construction joints

Additional Sika joint sealing solutions must be used for connections around penetrations and for construction joints.

IMPORTANT

Covering the membrane system

Permanent exposure to UV light will reduce the performance of the membrane system.

1. Concrete must be placed within 60 days after membrane system installation.
2. Proper concrete installation (mix design and workmanship) is required to achieve optimum bond of the membrane system to the concrete.

Reference must be made to the Sika Method Statement: SikaProof®-808

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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Product Data Sheet

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