

# PRODUCT DATA SHEET

## SikaProof®-808

Pre-applied fully bonded TPO sheet membrane for basement waterproofing

### DESCRIPTION

SikaProof®-808 is a TPO based sheet membrane for below ground waterproofing of reinforced concrete structures. It is loosely laid onto prepared substrates 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

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

### APPROVALS / CERTIFICATES

- CE Marking and Declaration of Performance to EN 13967 - Flexible sheets for waterproofing - Damp proofing and basement tanking
- Singapore Green Building Product Certificate, SikaProof®-808, No. SGBP 3838
- ASTM Testing, SikaProof®-808, Admaterials Technologies, Test Report No.T20-16252
- Functional testing of the watertightness, SikaProof®-808, WISSBAU, Test Report No. 2020-378-1

### PRODUCT INFORMATION

<b>Composition</b>	Membrane Layer	Thermoplastic Polyolefin (TPO)
	Bonding Layer	Cement modified polymer (A+ Technology)
<b>Packaging</b>	Roll width	Roll length
	1.00 m or 2.00 m	25 m
<b>Appearance / Colour</b>	Rough surface on A+ bonding layer / Light grey	
<b>Shelf life</b>	18 months from date of production	
<b>Storage conditions</b>	The Product must be stored in original unopened and undamaged 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.	

er, or under pallets of any other materials during transport or storage.  
Always refer to packaging.

<b>Effective thickness</b>	Total thickness 1.00 mm (-5 / +10 %)	(EN 1849-2 / ASTM D3767)
<b>Mass per unit area</b>	1.00 kg/m <sup>2</sup> (-5 / +10 %)	(EN 1849-2)

## TECHNICAL INFORMATION

<b>Resistance to impact</b>	≥ 400 mm (Method B)	(EN 12691)	
<b>Resistance to static puncture</b>	≥ 500 N	(ASTM E154)	
<b>Tensile strength</b>	Machine direction	≥ 500 N / 50 mm (Method A)	(EN 12311-2)
	Cross direction	≥ 500 N / 50 mm (Method A)	
	Machine direction	≥ 11 MPa (Method A)	(ASTM D412-16)
	Cross direction	≥ 10 MPa (Method A)	
<b>Modulus of elasticity in tension</b>	≤ 65 N/mm (Method B)	(EN 12311-2)	
<b>Elongation</b>	≥ 500 % (Method A)	(EN 12311-2)	
	≥ 700 % (Method A)	(ASTM D412-16)	
<b>Adhesion in peel</b>	Peel adhesion to concrete	≥ 1200 N/m	(ASTM D903)
<b>Joint peel resistance</b>	Lap Peel Adhesion	≥ 1000 N/m	(ASTM D1876)
	Lap Peel Adhesion (5°C)	≥ 800 N/m	
<b>Joint shear resistance</b>	≥ 50 N / 50 mm	(EN12317-2)	
<b>Crack bridging ability</b>	No crack at 3.2mm width No cracks occurred after 100 cycles at 3.2mm	(ASTM C1305-16)	
<b>Foldability at low temperature</b>	No Crack at -29°C	(ASTM D1970)	
<b>Reaction to fire</b>	Class E	(EN 13501-1)	
<b>Accelerated ageing in alkaline environment</b>	Pass (28 days, +23 °C)	(EN 1847)	
	Pass (Method B, 24 hours / 60 kPa)	(EN 1928)	
<b>Exposure to bitumen</b>	Pass (28 days, +70 °C)	(EN 1548)	
	Pass (Method A, 24 hours / 60 kPa)	(EN 1928)	
<b>Water vapour transmission</b>	0.05 g/m <sup>2</sup> .24h	(ASTM E96)	
<b>Resistance to lateral water migration</b>	Pass, up to 7 bar (71 m)	(ASTM D5385, modified)	
<b>Service temperature</b>	-10 °C min. / +35 °C max		

## SYSTEMS

<b>System structure</b>	The following system products must be used in the pre-applied system: <ul style="list-style-type: none"> <li>▪ SikaProof®-808 sheet membrane</li> <li>▪ SikaProof® Tape-120 for detailing or optional for internal jointing</li> <li>▪ SikaProof® Sandwich Tape for adhering Sika Waterbar® (external) to SikaProof®-808</li> </ul>
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## APPLICATION INFORMATION

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SikaProof®-808

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**BUILDING TRUST**



**Ambient air temperature** +5 °C min. / +45 °C max.

**Substrate temperature** +5 °C min. / +60 °C max.

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## 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®-808

## 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®-808 Series for more detailed information
- Do not install SikaProof®-808 during continuous or prolonged rain, snowfall or sandstorms.
- The substrate application surface must be clean with no standing water.
- Additional Sika Joint Sealing Solutions (minimum SikaSwell®) must be used for connections around penetrations and for construction joints.
- Concrete must be placed within 60 days after membrane system installation.
- Proper concrete installation (mix design and workmanship) is required to achieve optimum bond of the membrane system to the concrete.
- If the substrate is not smooth, use Geotextile 300–1000 g/m<sup>2</sup> to protect the SikaProof®-808 from sharp aggregates on the blinding concrete surface.
- Do not install SikaProof®-808 on structures where it will be permanently exposed to UV light.

## 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).

## APPLICATION INSTRUCTIONS

### 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.
- The substrate can be damp or slightly wet, ponding water must be avoided.

### APPLICATION METHOD / TOOLS

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

- 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.

### Sika Services AG

Tüffenwies 16  
8048 Zürich  
Tel: +41 58 436 4040  
[www.sika.com](http://www.sika.com)

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