



PRODUCT DATA SHEET

SikaProof® A-08

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

PRODUCT 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 nonwoven fleece backing layer which creates a bond with the cast concrete.

WHERE TO USE

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

PRODUCT INFORMATION

CSC MasterFormat®

07 13 00 | SHEET WATERPROOFING

Composition / Manufacturing

Membrane layer	Flexible Polyolefin (FPO)
Sealant grid	Polyolefin (PO)
Fleece layer	Polypropylene (PP)

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 and Joint Sealing Systems

ENVIRONMENTAL INFORMATION

- Conformity with LEED®v4 MR Credit (Option 1): Building Product Disclosure and Optimization – Environmental Product Declarations
- Conformity with LEED®v4 MR Credit (Option 1): Building Product Disclosure and Optimization - Sourcing of Raw Materials

Packaging	Rolls wrapped individually in a yellow PE-film. <ul style="list-style-type: none"> ▪ Roll width: 1.00 m (3.28 ft) or 2.00 m (6.56 ft) ▪ Roll length: 25 m (82 ft) Refer to current price list for packaging variations		
Appearance / Colour	Light yellow sheet membrane / laminated with 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 +4 °C and +29 °C (+ 40 °F and + 85 °F). 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.		
Effective Thickness	Total thickness (-5 / +10 %)	1.35 mm (0.05 in)	ASTM D3767
	Membrane thickness	0.80 mm (0.03 in)	
Mass per unit area	1.15 kg/m ² (0.24 lb/ft ²) (-5 / +10 %)		

TECHNICAL INFORMATION

Resistance to Impact	≥ 250 mm (≥10 in)	(EN 12691)						
Resistance to Root Penetration	Pass	(CEN/TS 14416)						
Tensile Strength	<table border="0" style="width: 100%;"> <tr> <td style="border-bottom: 1px solid black;">Machine Direction</td> <td style="border-bottom: 1px solid black;">8.27 MPa (1200 psi)</td> <td style="border-bottom: 1px solid black;">(ASTM D412)</td> </tr> <tr> <td style="border-bottom: 1px solid black;">Cross Direction</td> <td style="border-bottom: 1px solid black;">7.58 MPa (1100 psi)</td> <td></td> </tr> </table>	Machine Direction	8.27 MPa (1200 psi)	(ASTM D412)	Cross Direction	7.58 MPa (1100 psi)		
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Elongation	<table border="0" style="width: 100%;"> <tr> <td style="border-bottom: 1px solid black;">Machine direction</td> <td style="border-bottom: 1px solid black;">≥ 700 %</td> <td style="border-bottom: 1px solid black;">(ASTM D412)</td> </tr> <tr> <td style="border-bottom: 1px solid black;">Cross direction</td> <td style="border-bottom: 1px solid black;">≥ 1000 %</td> <td></td> </tr> </table>	Machine direction	≥ 700 %	(ASTM D412)	Cross direction	≥ 1000 %		
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Adhesion in Peel	9.63 N/mm (55 lb/in)	(ASTM D903)						
Joint Peel Resistance	8.76 N/mm (50 lb/in)	(ASTM D1876)						
Foldability	Pass (no cracking @ -28 °C [-20 °F])							
Water Vapour Transmission	3.45 x 10 ⁻⁹ g/Pa.S.m ² (0.06 perm)	(ASTM E96)						
Water Absorption	0.032 % weight gain (24 h at +23 °C (73 °F))	(ASTM D570)						
Watertightness	Pass, up to 7 bar (71.4 m or 234 ft)	(ASTM D5385)						
Resistance to lateral water migration	Pass, up to 7 bar (71.4 m or 234 ft)	(ASTM D 5385 Modified)						
Durability of Watertightness against Chemicals	<table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">Pass (28 d / +23 °C)</td> <td style="width: 50%;">(EN 1847)</td> </tr> <tr> <td>Pass (Method B, 24 h / 60 kPa)</td> <td>(EN 1928)</td> </tr> </table>	Pass (28 d / +23 °C)	(EN 1847)	Pass (Method B, 24 h / 60 kPa)	(EN 1928)			
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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)						

SYSTEMS

System Structure

The following system products must be used:

- SikaProof® A-08 sheet membrane
- SikaProof® Tape-150 A self-adhesive tape for internal jointing
- SikaProof® ExTape-150 self-adhesive tape for external jointing

Ancillary products:

- SikaProof® A-08 Edge preformed L-shaped sheet membrane
- Accessories and complementary products are available to provide detailing and connection solutions

APPLICATION INFORMATION

Substrate Moisture Content

No Standing Water (refer to important considerations for more information).

BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

OTHER DOCUMENTS

Availability/Warranty

- Method Statement - SikaProof® A
- Application Manual - SikaProof® A

LIMITATIONS

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

- See '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 +4 °C (+40 °F). Exceptions are possible under special circumstances with appropriate precautions. Contact Sika Canada for more information.
- Additional Sika® Joint Sealing Solutions (minimum Sika Hydrotite®) 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 Canada for more information.

ENVIRONMENT, HEALTH & 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

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

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must be avoided. Suitable membrane fixing substrates include:

- Concrete blinding
- Formwork
- Rigid thermal insulation
- Plywood sheets / forms
- Sika Drainage Mat

APPLICATION METHOD / TOOLS

Installation procedure

Refer to current SikaProof® A Method Statement or Application Manual.

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

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 recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. 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 or may be downloaded from our website at: www.sika.ca

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