

PRODUCT DATA SHEET

SikaProof® A-12

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

PRODUCT DESCRIPTION

SikaProof® A-12 is an embossed polyolefin FPO sheet membrane for pre-applied fully bonded below ground waterproofing of reinforced concrete structures. Membrane thickness 1,2 mm. SikaProof® A-12 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-12 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

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-12	1.00 m (3.28 ft) or 2.00 m (6.56 ft)	20 m (65 ft)
Appearance / Color	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 + 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%)	1.60 mm (0.06 in) (ASTM D3767)	
	Membrane Thickness	1.20 mm (0.05 in)	
Mass per Unit Area	0.31 lb/ft ² (-5 % / +10 %)		

TECHNICAL INFORMATION

Impact Strength	200 lbs (no puncture)	(ASTM E154)
Resistance to Root Penetration	Pass	(CEN/TS 14416)
Tensile Strength	Machine direction	1200 psi (ASTM D412)
	Cross direction	1100 psi
Elongation	Machine direction	≥ 700 % (ASTM D412)
	Cross direction	≥ 1000 %
Adhesion in Peel	55 lbs/in	(ASTM D903)
Joint Peel Resistance	50 lbs/in	(ASTM D1876)
Low Temperature Bend	Pass - no cracking at -29 °C (-20 °F)	(ASTM D1970)
Water Vapor Transmission	3.45 x 10 ⁻⁹ g/Pa.S.m ² (0.06 perms)	(ASTM E96)
Water Tightness	Pass, up to 7 bar (234 ft)	(ASTM D 5385)
Resistance to lateral water migration	Pass, up to 7 bar (234 ft)	(ASTM D 5385 modified)
Durability of Water Tightness against Chemicals	Pass (28 d / +23 °C)	(EN 1847)
	Pass (Method B, 24 h / 60 kPa)	(EN 1928)
Permeability to Radon	5,3±0,7 × 10 ⁻¹² m ² /s	(Certificate E-214/2011)
Permeability to Methane	140 ml/(m ² ·d) (±10 %)	(ISO 7229)

SYSTEM INFORMATION

Product Data Sheet
SikaProof® A-12
May 2019, Version 01.03
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BUILDING TRUST



System Structure

The following system components must be used:

- SikaProof® A-12 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-12 Edge pre-formed L-shaped sheet membrane
 - Accessories and complementary products are available to provide detailing and connection solutions.
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APPLICATION INFORMATION

Substrate Moisture Content

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

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-12 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
- 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-12 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-12 ancillary products or complementary Sika Waterproofing Systems.

Backfilling protection

After formwork removal and before backfilling. SikaProof® A-12 system must be protected with an appropriate protection sheet as soon as possible or at the latest within 90 days.

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.

- Reference must also be made to the 'Method Statement - SikaProof® A' and 'Application Manual - SikaProof® A' for more detailed information.

Product Data Sheet

SikaProof® A-12

May 2019, Version 01.03

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- Do not install SikaProof® A-12 membrane during continuous or prolonged rain or snowfall.
- The substrate application surface must be clean with no standing water.
- Do not use SikaProof® A-12 for applications in hot climates. Use the specially designed SikaProof® A-12 HC membrane.
- If SikaProof® A-12 has to be applied under wet conditions or temperatures below +40 °F. Exceptions are possible under special circumstances with appropriate precautions. Contact Sika® Technical Services 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-12 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 (yellow membrane side) must be protected 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

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

OTHER RESTRICTIONS

See Legal Disclaimer.

ENVIRONMENTAL, 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).

LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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Sika Corporation

201 Polito Avenue
Lyndhurst, NJ 07071
Phone: +1-800-933-7452
Fax: +1-201-933-6225
usa.sika.com

Sika Mexicana S.A. de C.V.

Carretera Libre Celaya Km. 8.5
Fracc. Industrial Balvanera
Corregidora, Queretaro
C.P. 76920
Phone: 52 442 2385800
Fax: 52 442 2250537



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May 2019, Version 01.03
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