

PRODUCT DATA SHEET

SikaProof® A-12 Edge Sheet

FULLY BONDED FPO SHEET MEMBRANE IN L-SHAPE FOR THE SIKAPROOF® A WATERPROOFING SYSTEM

(ONLY TO BE APPLIED BY A SIKA APPROVED CONTRACTOR)

PRODUCT DESCRIPTION

SikaProof A-12 Edge Sheet is a preformed L-shaped SikaProof A membrane sheet in 1.0m width folded in 50/50cm with a self-adhesive strip on both sides for a faster and easier application of perimeter edges, corners and connections.

USES

Damp-proofing, concrete protection and waterproofing for basements and other below ground concrete structures against ground water ingress. Suitable for use on:

- Below ground concrete slabs
- Below ground walls with both single and double-faced formwork
- Extensions and reconstruction works
- For prefabricated constructions

CHARACTERISTICS / ADVANTAGES

- Cold-applied (no pre-heating or open flames) and pre-applied, before the reinforcement is fixed and the concrete is poured
- Fully and permanently bonded to the concrete structure
- No lateral water underflow or migration between the concrete structure and the membrane system
- High watertightness tested according to international standards
- Easy to install with fully adhered joints (no welding required)
- Weather resistant with temporary UV stability
- Resistant to ageing
- High flexibility and crack-bridging ability
- Resistant to aggressive mediums in natural ground water and soil
- Can be combined with other approved Sika waterproofing systems including:
 - Sikaplan WT membranes, FPO-based sheet waterproofing membranes
 - Sikadur Combiflex SG system, FPO-based joint sealing systems

TESTS

APPROVAL / STANDARDS

- Product Declaration EN 13967 – Flexible sheets for waterproofing. CE Certificate No. 1349-CPD-065, 16.08.2011

- Function test, Wissbau, test report No. 2010-212-6 (Penetrations), ...
- Function test, Wissbau, test report No. 2010-212-7 (Pile head), ...
- ASTM D 5385 mod., Sika Technology AG, Internal Test Lab, test report No. 1112035, 23.11.2011
- Radon permeability, Slovak Medical University, for SikaProof A-12, test report No. E-215/2011, 15.11.2011

PRODUCT DATA

FORM

COLOURS

Light yellow sheet membrane, laminated with a fleece layer

PACKAGING

SikaProof A rolls are wrapped individually in a yellow PE-foil.

Roll width	Roll length
1m	20m

STORAGE

STORAGE CONDITIONS / SHELF-LIFE

SikaProof A membrane rolls have a shelf-life of eighteen (18) months from date of production if stored properly in unopened, undamaged, original packaging, in a horizontal position, in dry conditions and at temperatures between +5°C and +30°C.

They must be protected from direct sunlight, rain, snow and ice, etc. Do not stack pallets of the rolls on top of each other, or under pallets of any other materials during transport or storage.

TECHNICAL DATA

CHEMICAL BASE

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

PRODUCT DECLARATION

EN 13967, mandatory for European countries

VISIBLE DEFECTS

Pass	EN 1850-2
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STRAIGHTNESS

≤ 50mm / 10m	EN 1848-2
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MASS PER UNIT AREA

1.50kg/m ²	(-5 / +10%)	EN 1849-2
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THICKNESS

Total Thickness	Membrane Thickness	Deviation	EN 1849-2
1.70mm	1.20mm	(-5 / +10%)	

WATERTIGHTNESS TO LIQUID WATER

Pass	EN 1928 B (24 h/60 kPa)
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RESISTANCE TO IMPACT

≥ 350mm	EN 12691
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DURABILITY OF WATERTIGHTNESS AGAINST AGEING

Product Data Sheet

SikaProof® A-12 Edge Sheet

29/05/2015 Edition: 0515 (edition 112012)

SikaProof A-12 Edge Sheet v0515 (edition 112012)

Pass	EN 1296 (12 weeks) EN 1928 B (24h / 60 kPa)
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DURABILITY OF WATERTIGHTNESS AGAINST CHEMICALS

Pass	EN 1847 (28 d/+23 °C) EN 1928 B (24h / 60 kPa)
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ACCELERATED AGEING IN AN ALKALINE ENVIRONMENT, TENSILE STRENGTH

Pass	EN 1847 (28 d/+23 °C) EN 1928 B (24 h/60 kPa)
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RESISTANCE TO TEAR - NAIL SHANK (MACHINE DIRECTION)

≥ 550N	EN 12310-1
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RESISTANCE TO TEAR - NAIL SHANK (CROSS DIRECTION)

≥ 550N	EN 12310-1
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JOINT STRENGTH

≥ 250N / 50mm	EN 12317-2
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TENSILE STRENGTH (MACHINE DIRECTION)

≥ 675N / 50mm	EN 12311-1
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TENSILE STRENGTH (CROSS DIRECTION)

≥ 550N / 50mm	EN 12311-1
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ELONGATION (MACHINE DIRECTION)

≥ 475%	EN 12311-1
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ELONGATION (CROSS DIRECTION)

≥ 550%	EN 12311-1
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WATER VAPOUR TRANSMISSION

0.50 – 0.75 g/m ² x 24h 45,100 – 47,800m	EN 1931 (+23°C/75% r.h.)
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RESISTANCE TO STATIC LOAD

≥ 20kg	EN 12730 (Method B, 24h/20kg)
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REACTION TO FIRE

Class E	EN 13501-1:2000
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**ADDITIONAL DATA
(NOT CE RELEVANT)**

WATER RESISTANCE TO LATERAL WATER UNDERFLOW OF MEMBRANE SYSTEM

≥ 7.0 bar	ASTM D 5385 mod.
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RADON PERMEABILITY

(5.3 +/- 0.7) x 10 ⁻¹² m ² /s	Certificate E-215/2011
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System Information

SYSTEM COMPONENTS

- SikaProof A-12, membrane in rolls of widths 1.0 and 2.0m
- SikaProof Tape-150, self-adhesive tape for internal jointing, based on butyl-rubber, in 150mm width
- SikaProof ExTape-150, self-adhesive tape for external jointing, based on butyl-rubber, in 150mm width

ACCESSORIES

- SikaProof A-12 Edge, preformed sheet in an L-shape, to form the waterproofing system edges, corners and connections
- SikaProof Patch-200, external membrane patching tape for sealing any local damage or penetrations, supplied in 200mm width
- SikaProof FixTape-50, for fixing and repairing around details and penetrations
- SikaProof MetalSheet, to create special details such as pile heads

APPLICATION DETAILS**RECOMMENDED SYSTEM**

Typical use	Waterproofing for civil engineered structures
Typical applications	Base slab / Walls / Precast elements
Maximum head of water (pressure)	< 15 m (1.5 bar)
Crack-bridging ability	≤ 2 mm

This list is not exhaustive. It can be used as a general selection guide for specific decision criteria.

For more information how to choose the appropriate Sika solution for basement waterproofing contact your local Sika Representative.

SUBSTRATE QUALITY

The substrate for the SikaProof A membrane needs sufficient stability to avoid movement during the construction works.

A smooth, uniform and clean substrate surface is essential to prevent membrane damage. Large gaps and voids (> 12 - 15mm) must be closed before installation of the SikaProof A membrane system. The substrate can be damp or slightly wet, but ponding water must be avoided.

Suitable substrates to fix the SikaProof A membrane system onto are:

- Concrete blinding
- Formwork
- Rigid thermal insulation
- Geotextile
- Compacted soil / fill with geotextile (only for low requirements)
- Plywood

APPLICATIONS CONDITIONS / LIMITATIONS**SUBSTRATE TEMPERATURE**

+5°C min. / + 35°C max.

AMBIENT AIR TEMPERATURE

+5°C min. / + 35°C max.

APPLICATION INSTRUCTIONS**APPLICATION METHOD**

SikaProof A is a cold-applied and pre-applied sheet membrane waterproofing system, installed before the reinforcement is fixed and the concrete is poured.

The joints of SikaProof A membranes are not welded, they are fully adhered by self-adhesive strips prefabricated on the membrane sheets or with detailing tapes.

Installation procedure:

- 1 Ensure the substrate is correctly constructed and prepared, see section 5.1. of the Method Statement.
- 2 Install the pre-formed SikaProof A-12 Edge Sheet for the perimeters and terminations / connections.
- 3 Form the corners with the same pre-fabricated Edge sheet and adhere them externally with SikaProof ExTape-150 and internally with SikaProof Tape-150.
- 4 Lay the SikaProof A membranes on the horizontal and vertical surfaces using the 1.0 or 2.0m width rolls (as appropriate) and adhere the overlap joints with the self-adhesive strips lengthways and for cross joints using the SikaProof Tape-150 inside and SikaProof ExTape-150 outside.
- 5 Form standard details, such as pipe penetrations, shaft connections, pits, pile heads, expansion joints and shuttering anchors, use the appropriate accessory products.
- 6 Finally, check all the overlap joints, connections and details, to ensure they are correctly installed and fully adhered using SikaProof Tape-150 and SikaProof ExTape-150.
- 7 After the SikaProof A membrane system is applied the reinforcement will be fixed and the concrete will be poured.
- 8 After removing the formwork penetrations, such as shuttering anchors, any membrane damage and any construction joints can be sealed on the external side (on the membrane) with the SikaProof Patch-200 or Sikadur Combiflex SG system.

For further detailed information about the installation procedure, please refer to the current SikaProof A Method Statement or Application Manual.

NOTES ON APPLICATION / LIMITATIONS

- SikaProof A membranes must only be installed by Sika trained and approved contractors.
 - Do not apply SikaProof A membranes during continuous or prolonged rainfall.
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VALUE BASE

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.

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.

ECOLOGY, HEALTH AND SAFETY INFORMATION

A Safety Data Sheet following EC- Regulation 1907/2006, Article 31 is not needed to bring the product to the market, to transport or to use it. The product does not damage the environment when used as specified.

REACH

European Community Regulation on chemicals and their safe use (REACH: EC 1907/2006)

This product is an article within the meaning 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. Therefore, there are no registration requirements for substances in articles within the meaning of Article 7.1 of the Regulation. Based on our current knowledge, this product does not contain SVHC (substances of very high concern) from the candidate list published by the European Chemicals Agency in concentrations above 0.1 % (w/w).

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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