

## SikaProof® A-08 Edge, A-12 Edge

Fully bonded FPO sheet membrane in L-shape for the SikaProof® A waterproofing system

### Product Description

SikaProof® A Edge is a preformed L-shaped SikaProof® A membrane sheet in 1.0 m width folded in 50/50 cm 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:

- 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 various standards
- Easy to install with fully adhered joints (no welding required)
- Weathering 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 system

### Tests

#### Approval / Standards

- British Board of Agreement Certificate 13/5075 Tanking Membranes
- 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 (SikaProof A-08), 03.05.2011
- Function test, Wissbau, test report No. 2010-212-6 (Penetrations), ...
- Function test, Wissbau, test report No. 2012-212-7 (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
- Radon permeability, Slovak Medical University, for SikaProof A-08, test report No. E-214/2011, 07.12.2011



## Product Data

### Form

|                             |                                                                  |            |             |
|-----------------------------|------------------------------------------------------------------|------------|-------------|
| <b>Appearance / Colours</b> | Light yellow sheet membrane, laminated with a fleece layer       |            |             |
| <b>Packaging</b>            | SikaProof® A rolls are wrapped individually in a yellow PE-foil. |            |             |
|                             |                                                                  | Roll width | Roll length |
|                             | SikaProof® A-08 Edge                                             | 1 m        | 25 m        |
|                             | SikaProof® A-12 Edge                                             | 1 m        | 20 m        |

### Storage

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage Conditions / Shelf life</b> | SikaProof® A membrane rolls have a shelf-life of 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                                         |
| Straightness                                                    | ≤ 50 mm / 10 m                             |                           |                           |            | EN 1848-2                                         |
| Mass per Unit Area                                              | SikaProof® A-08 Edge                       | 1.15 kg/m²                | (-5 /+10%)                |            | EN 1849-2                                         |
|                                                                 | SikaProof® A-12 Edge                       | 1.50 kg/m²                | (-5 /+10%)                |            |                                                   |
| Thickness                                                       |                                            | Total Thickness (=deff)   | Master Membrane Thickness | Deviation  | EN 1849-2                                         |
|                                                                 | SikaProof® A-08 Edge                       | 1.35 mm                   | 0.80 mm                   | (-5 /+10%) |                                                   |
|                                                                 | SikaProof® A-12 Edge                       | 1.70 mm                   | 1.20 mm                   | (-5 /+10%) |                                                   |
| Watertightness to Liquid Water                                  | Pass                                       |                           |                           |            | EN 1928 B (24 h/60 kPa)                           |
| Resistance to Impact                                            | SikaProof® A-08 Edge                       | ≥ 250 mm                  | EN 12691                  |            |                                                   |
|                                                                 | SikaProof® A-12 Edge                       | ≥ 350 mm                  |                           |            |                                                   |
| Durability of Watertightness against Ageing                     | Pass                                       |                           |                           |            | EN 1296 (12 weeks)<br>EN 1928 B (24h / 60 kPa)    |
| Durability of Watertightness against Chemicals                  | Pass                                       |                           |                           |            | EN 1847 (28 d/+23 °C)<br>EN 1928 B (24h / 60 kPa) |
| Accelerated Ageing in an Alkaline Environment, Tensile Strength | Pass                                       |                           |                           |            | EN 1847 (28 d/+23 °C)<br>EN 1928 B (24 h/60 kPa)  |

|                                                                      |                      |                                        |                          |
|----------------------------------------------------------------------|----------------------|----------------------------------------|--------------------------|
| Resistance to Tear<br>- Nail Shank<br>(Machine Direction)            | SikaProof® A-08 Edge | ≥ 400 N                                | EN 12310-1               |
|                                                                      | SikaProof® A-12 Edge | ≥ 550 N                                |                          |
| Resistance to Tear<br>- Nail Shank<br>(Cross Direction)              | SikaProof® A-08 Edge | ≥ 400 N                                | EN 12310-1               |
|                                                                      | SikaProof® A-12 Edge | ≥ 550 N                                |                          |
| Joint Strength                                                       | SikaProof® A-08 Edge | ≥ 250 N / 50 mm                        | EN 12317-2               |
|                                                                      | SikaProof® A-12 Edge | ≥ 250 N / 50 mm                        |                          |
| Tensile Strength<br>(Machine Direction)                              | SikaProof® A-08 Edge | ≥ 400 N / 50 mm                        | EN 12311-1               |
|                                                                      | SikaProof® A-12 Edge | ≥ 675 N / 50 mm                        |                          |
| Tensile Strength<br>(Cross Direction)                                | SikaProof® A-08 Edge | ≥ 375 N / 50 mm                        | EN 12311-1               |
|                                                                      | SikaProof® A-12 Edge | ≥ 550 N / 50 mm                        |                          |
| Elongation<br>(Machine Direction)                                    | SikaProof® A-08 Edge | ≥ 450 %                                | EN 12311-1               |
|                                                                      | SikaProof® A-12 Edge | ≥ 475 %                                |                          |
| Elongation<br>(Cross Direction)                                      | SikaProof® A-08 Edge | ≥ 500 %                                | EN 12311-1               |
|                                                                      | SikaProof® A-12 Edge | ≥ 550 %                                |                          |
| Water Vapour<br>Transmission                                         | SikaProof® A-08 Edge | 0.75 – 0.95 g/m² x<br>24 h             | EN 1931 (+23°C/75% r.h.) |
|                                                                      |                      | 35'500 – 37'600 m                      |                          |
|                                                                      | SikaProof® A-12 Edge | 0.50 – 0.75 g/m² x<br>24 h             |                          |
|                                                                      |                      | 45'100 – 47'800 m                      |                          |
| Resistance to Static<br>Load                                         | ≥ 20 kg              | EN 12730 (Method B, 24 h/20 kg)        |                          |
| Reaction to Fire                                                     | Class E              | EN 13501-1:2000                        |                          |
| Additional Data (not CE relevant)                                    |                      |                                        |                          |
| Radon Permeability                                                   | SikaProof® A-08      | (2.0 +/- 0.3) x 10 <sup>-12</sup> m²/s | Certificate E-214/2011   |
|                                                                      | SikaProof® A-12      | (5.3 +/- 0.7) x 10 <sup>-12</sup> m²/s | Certificate E-215/2011   |
| Water resistance to<br>lateral water underflow<br>of membrane system | SikaProof® A-08      | ≥ 7.0 bar                              | ASTM D 5385 mod.         |
|                                                                      | SikaProof® A-12      | ≥ 7.0 bar                              |                          |

## System Information

### System Components

- SikaProof® A-05, membrane in rolls of widths 1.0 and 2.0 m
- SikaProof® A-08, membrane in rolls of widths 1.0 and 2.0 m
- SikaProof® A-12, membrane in rolls of widths 1.0 and 2.0 m
- SikaProof® Tape-150, self-adhesive tape for internal jointing, based on butyl-rubber, in 150 mm width
- SikaProof® ExTape-150, self-adhesive tape for external jointing, based on butyl-rubber, in 150 mm width

### Accessories

- SikaProof® A-08 / -12 Edge, preformed sheet in L-shape, to form the waterproofing system edges, corners and connections
- SikaProof® Patch-200 B, external membrane patching tape for sealing any local damage or penetrations, supplied in 200 mm 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

| General criteria              | SikaProof® A-05                                     | SikaProof® A-08                               | SikaProof® A-12                               |
|-------------------------------|-----------------------------------------------------|-----------------------------------------------|-----------------------------------------------|
| Typical use                   | Damp-proofing / concrete protection / waterproofing | Waterproofing for civil engineered structures | Waterproofing for civil engineered structures |
| Typical application           | Slab on ground / Walls / Precast elements           | Base slabs / Walls / Precast elements         | Base slab / Walls / Precast elements          |
| Max. head of water (pressure) | < 5 m (0.5 bar)                                     | < 10 m (1.0 bar)                              | < 15 m (1.5 bar)                              |
| Crack-bridging ability        | Not tested                                          | ≤ 1 mm                                        | ≤ 2 mm                                        |

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

For further 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 (> 12-15 mm) 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

### Application Conditions / Limitations

**Substrate Temperature** +5°C min. / + 35°C

**Ambient Air Temperature** +5°C min. / + 35 °C

## 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 sheet or with detailing tapes.

Installation procedure:

1. Ensure the substrate is correctly constructed and prepared, see Section 5.1.
2. Install the pre-formed SikaProof® A 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 2.0 m 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 and fully adhered using the SikaProof® Tape-150 and SikaProof® ExTape-150.
7. After the SikaProof® 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 B or by Sikadur® Combiflex SG system.

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

### Notes on Application / Limitations

SikaProof® A membranes must only be installed by trained and approved Sika contractors.

SikaProof® A-membrane is not UV stabilised and can not be installed on structures permanently exposed to UV light and weathering.

Do not apply SikaProof® A membranes during continuous or prolonged rainfall.

**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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