

SikaProof® A

Fully Bonded FPO Sheet Membrane Waterproofing System for Basement and other Below Grade Structures

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| Description | SikaProof® A is a fully and mechanically bonded, composite sheet membrane waterproofing system. It consists of an embossed, flexible polyolefin (FPO) membrane laminated with a sealant grid and a non-woven fleece. SikaProof® A is cold-applied and pre-applied, as it is installed without heat or open flames, and before the steel reinforcement is placed and the concrete is poured. |
| Where To Use | Damp-proofing, concrete protection and waterproofing for basements and other below grade concrete structures against ground water ingress: <ul style="list-style-type: none"> ■ Below grade concrete slabs ■ Below grade walls with both single (blindsided forming) and double-faced formwork (open cut) ■ Additions and retrofitting work ■ For prefabricated construction |
| Advantages | <ul style="list-style-type: none"> ■ Cold-applied (no pre-heating or open flames) and pre-applied, before the reinforcement is placed and the concrete is poured. ■ Fully bonded to the concrete structure. ■ No lateral water underflow or migration is possible between the concrete and the membrane when installed in accordance with Sika® Greenstreak™'s Instructions. ■ High watertightness determined in accordance with ASTM test standards. ■ Easy to install with fully adhered joints (no welding required). ■ Weather resistant with temporary UV-stability during installation. ■ High durability. ■ High tensile strength and elongation. ■ 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: <ul style="list-style-type: none"> ■ SikaProof® P post applied membranes ■ Sikaplan® WT membranes, FPO-based sheet waterproofing membranes ■ Sikadur®-Combiflex SG system, FPO-based joint sealing system ■ SikaBit® S-60 self-adhered membranes |
| Typical Data | |
| Coverage | <p>SikaProof® A-05: 30 sm (323 sf) or 60 sm (646 sf) per roll</p> <p>SikaProof® A-08: 25 sm (269 sf) or 50 sm (538 sf) per roll</p> <p>SikaProof® A-12 20 sm (215 sf) or 40 sm (430 sf) per roll</p> |
| Appearance | Light yellow sheet membrane, laminated with a fleece layer |
| Packaging | SikaProof® A Edge rolls are wrapped individually in a yellow PE-foil. |



PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT [HTTP://USA.SIKA.COM/](http://usa.sika.com/) OR BY CALLING SIKA'S TECHNICAL SERVICE DEPARTMENT AT 800-933-7452. NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTION FOR EACH SIKA PRODUCT AS SET FORTH IN THE CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

Waterproofing

| | Total Thickness | Roll Width | Roll Length |
|-----------------|--------------------|--------------------------------------|---------------|
| SikaProof® A-05 | 1.00 mm (0.05 in.) | 1 m or 2 m (3.28 ft. or 6.56 ft.) | 30 m (98 ft.) |
| SikaProof® A-08 | 1.25 mm (0.05 in.) | 1 m or 2 m (3.28 ft. or 6.56 ft.) | 25 m (82 ft.) |
| SikaProof® A-12 | 1.60 mm (0.06 in.) | 1 m or 2 m (3.28 ft. or 6.56 ft.) | 20 m (65 ft.) |

Technical Data

Chemical Base:

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

Mass per unit area:

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|-----------------|---|-----------|
| SikaProof® A-05 | 0.90 kg/m ² (0.16 lb/ft ²) | -5 / +10% |
| SikaProof® A-08 | 1.15 kg/m ² (0.24 lb/ft ²) | -5 / +10% |
| SikaProof® A-12 | 1.50 kg/m ² (0.31 lb/ft ²) | -5 / +10% |

Thickness: ASTM D3767

| | Total Thickness | Membrane Thickness | Deviation |
|-----------------|--------------------|--------------------|-----------|
| SikaProof® A-05 | 1.00 mm (0.04 in.) | 0.50 mm (0.02 in.) | -5 / +10% |
| SikaProof® A-08 | 1.25 mm (0.05 in.) | 0.80 mm (0.03 in.) | -5 / +10% |
| SikaProof® A-12 | 1.60 mm (0.06 in.) | 1.20 mm (0.05 in.) | -5 / +10% |

| Property | Value | ASTM Test Method |
|---|--|---|
| Tensile Strength | TD: 1100 psi MD: 1200 psi | ASTM D412 |
| Elongation | TD: 800% min. MD: 700% min. | ASTM D412 |
| Peel Adhesion to Concrete | 55 lbs/in | ASTM D903 |
| Lap Peel Adhesion | 50 lbs/in | ASTM D1876 |
| Water vapor transmission | 3.45 X 10 ⁻⁹ g/Pa·S·m ² (0.06 perms) | ASTM E96 |
| Low temperature | Pass (no cracking @ -29°) | ASTM D1970 |
| Puncture resistance | 170 lbs | ASTM E154 |
| Water absorption | 0.032% weight gain | ASTM D570 (24 hr./23°C) |
| Crack Cycling | Pass (no cracking at -15F) | ASTM C836 |
| Radon Permeability | | |
| | SikaProof® A-08 Edge | (2.0 +/- 0.3) x 10 ⁻¹² m ² /s |
| | SikaProof® A-12 Edge | (5.3 +/- 0.7) x 10 ⁻¹² m ² /s |
| Resistance to Hydrostatic head and Lateral Water Migration: | | ASTM D 5385 mod. |
| | SikaProof® A-08 Edge | ≥7.0 bar (100 psi) |
| | SikaProof® A-12 Edge | ≥7.0 bar (100 psi) |

TD = Transverse Direction

MD = Machine Direction

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



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System Information

System Components:

- SikaProof® A-05, membrane in rolls of widths 1.0 or 2.0 m
- SikaProof® A-08, membrane in rolls of widths 1.0 or 2.0 m
- SikaProof® A-12, membrane in rolls of widths 1.0 or 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, external membrane patching tape for sealing any local damage or penetrations, supplied in 200 mm width.
- SikaProof® MetalSheet, to create special details, such as pile heads.
- SikaProof® FixTape-50, for fixing and repairing around details and penetrations.

Substrate Quality:

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

A smooth, uniform and clean substrate surface is essential to prevent membrane damage. Close large gaps and voids (> 12 mm) before installation of the SikaProof® A membrane system. The substrate can be damp or slightly wet. Do not install over ponding water.

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

- Concrete or blinding/mudslab concrete
- Well compacted soil/fill
- Formwork
- Rigid thermal insulation
- Wooden frames

How to Use

Surface Prep

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

A smooth, uniform and clean substrate surface is essential to prevent membrane damage. Close large gaps and voids (> 0.5-0.6 in) before installation of the SikaProof® A membrane system. The substrate can be damp or slightly wet. Do not install over ponding water.

Suitable substrates on which to place SikaProof® A are:

- Concrete or blinding/mudslab concrete
- Formwork
- Rigid thermal insulation
- Wooden frames

Application

Conditions/ Limitations

Substrate Temperature: +5°C min. / + 35°C max. (+40°F min./ +95°F max.)

Ambient air temperature: +5°C min. / + 35 °C max. (+40°F min./ +95°F max.)

Ambient maximum (Temperature of Liquids): +35°C groundwater (+95°F max.)

Application Instructions

Application Method: SikaProof® A is a cold-applied and pre-applied sheet membrane waterproofing system, installed before the reinforcement is placed and the concrete is poured.

The joints of SikaProof® A are fully adhered by self adhesive strips on the membrane sheet or with SikaProof® adhesive tapes rather than by welding. Only the following tools are required: tape measure, marking pen, membrane cutter and pressure roller.

Installation Procedure

1. Ensure the substrate is correctly constructed and prepared, see Method of Application - Surface Preparation.
2. Install the pre-formed SikaProof® A Edge sheet for the perimeters.



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Waterproofing

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. Install the SikaProof® A membrane on the horizontal and vertical surfaces using the 1.0 or 2.0 m width rolls (as appropriate) and adhere the joints with the self adhesive strips lengthways and for cross joints using the SikaProof® Tape-150 and SikaProof® ExTape-150.
 5. Form all existing details, such as pipe penetrations, shaft connections, pits, pile heads, expansion joints and any other details using the appropriate accessory products.
 6. Finally, check all the 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 placed and the concrete will be poured.
 8. After removing the formwork and any removable form ties, 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 the Sikadur® Combiflex SG system.
- Please refer to the SikaProof® A Method Statement for further information regarding the installation procedure.

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| Limitations | SikaProof® A membranes must be installed by trained and approved Sika® contractors. SikaProof® A membranes are not permanently UV stabilized and therefore cannot be installed on structures or areas permanently exposed to UV light and external weathering. The maximum UV light exposure during installation or in the final stage of SikaProof® A system is 7 weeks. |
| Shelf Life | Do not apply SikaProof® A membranes during continuous or prolonged rainfall. SikaProof® A membrane rolls have a shelf-life of 12 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 (+40°F) and +30°C (+85°F). |
| Storage | SikaProof® A membrane rolls 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. |

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The Sika logo consists of the word "Sika" in a bold, yellow, sans-serif font, set against a red triangular background. A registered trademark symbol (®) is located to the right of the word.

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