

PRODUCT DATA SHEET

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SHEET WATERPROOFING

SikaProof® A Edge (-08/-12)

PRE-FORMED, FULLY-BONDED AND UNDERFLOW-RESISTANT EDGE SHEETS for the SikaProof® A waterproofing membrane system

Description	SikaProof® A Edge is a preformed edge sheet consisting of membrane and fleece layer and available L-shape angles with a self-adhesive strip. The membrane layer is based upon Flexible Polyolefin (FPO), the sealant grid is Polyolefin (PO) while the fleece layer consists of Polypropylene, all designed to achieve a fully compatible, stable and effective waterproofing membrane.
Where to Use	Used for a fast and secure installation of the membrane system's perimeter edges and terminations, as well as for corners and connections.
Advantages	<ul style="list-style-type: none"> ▪ 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 is possible between the concrete structure and the membrane system. ▪ High watertightness determined in accordance with various testing standards. ▪ Easy to install with fully adhered joints (no welding required). ▪ Weathering resistant with temporary UV-stability. ▪ High tensile strength and elongation. ▪ High flexibility and crack-bridging ability. ▪ Resistant to aggressive mediums in natural ground water and soil. ▪ Highly durable with cost-effectiveness benefits. ▪ Can be combined with other approved Sika® waterproofing systems including: <ul style="list-style-type: none"> - Sikaplan® WT membranes, FPO-based sheet waterproofing membranes - Sikadur® Combiflex® SG System, FPO-based joint sealing system
Approvals/ Certifications	<ul style="list-style-type: none"> ▪ 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

Technical Data				
Packaging	Individual wrapped rolls in a yellow PE-foil.			
		Total Thickness	Roll Width	Roll Length
	SikaProof® A Edge-08	1.25 mm (0.05 in)	1 m (3.28 ft)	25 m (82 ft)
	SikaProof® A Edge-12	1.60 mm (0.06 in)	1 m (3.28 ft)	20 m (65 ft)
Colour /Appearance	Light yellow sheet membrane, laminated with a fleece layer			
Shelf Life	1 year if stored properly in unopened, undamaged, original packaging, Store and transport in a horizontal position, under dry conditions and at temperatures between 5 and 30 °C (41 and 86 °F). The 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 as this may cause damage.			
Application Temperature (substrate & ambient)	Minimum 5 °C (40 °F) Maximum 35 °C (95 °F)			
Temperature of Contact Liquids	Maximum: 35 °C (95 °F) groundwater			
Properties				
Visible defects EN 1850-02	Pass			
Straightness EN 1848-2	≤ 50 mm / 10 m (< 2 in / 32 ft)			
Mass per unit area EN 1849-2	SikaProof® A-08	1.15 kg/m ² (0.24 lb/ft ²)		
	SikaProof® A-12	1.50 kg/m ² (0.31 lb/ft ²)		

Thickness ASTM D3767	Total Thickness		Membrane Thickness
	SikaProof® A-08	1.35 mm	0.80 mm (0.03 in)
	SikaProof® A-12	1.70 mm	1.20 mm (0.05 in)
Tensile Strength ASTM D412	8.28 MPa (1200 psi) min.		
Elongation ASTM D412	700 % min.		
Water tightness to liquid water EN 1928 (24 h/60 kPa)	Pass		
Resistance to impact EN 12691	SikaProof® A-08	≥ 250 mm (≥ 10 in)	
	SikaProof® A-12	≥ 350 mm (≥ 14 in)	
Puncture resistance ASTM F1342 (20 in/min)	33.5 N		
Resistance to tear EN 12310-1 (nail shank)	SikaProof® A-08	≥ 400 N (89.9 lbf)	
	SikaProof® A-12	≥ 600 N (134.9 lbf)	
Resistance to static load EN 12730 (Method B, 24 h/20 kg)	≥ 20 kg (≥ 44 lb)		
Durability of watertightness against aging			
EN 1296 (12 weeks)			
EN 1298 B (24 h/60kPa)	Pass		
Tensile Strength			
EN 1847 (28 days @ 23 °C)			
EN 1928 B (24 h/60kPa) (accelerated ageing in alkaline environ)	Pass		
Joint Strength	SikaProof® A-08	≥ 250 N / 50 mm	≥ 250 MPa / 2 in
EN 12317-2 (shear direction)	SikaProof® A-12	≥ 250 N / 50 mm	≥ 250 MPa / 2 in
Water vapour transmission ASTM E96	0.03 perms (3.45 x 10 ⁻⁹ g/Pa•S•m ²)		
Reaction to fire EN ISO 11925-2	Class E		
Low temperature flexibility ASTM D1970	Pass (no cracking @ -29 °C [-22 °F])		
Water absorption ASTM D570 (24 h @ 23 °C)	0.032 % weight gain		
Radon permeability			
Certificate E-214/2011	SikaProof® A-08	2.0 (+/- 0.3) x 10 ⁻¹² m ² /s	
Certificate E-215/2011	SikaProof® A-12	5.3 (+/- 0.7) x 10 ⁻¹² m ² /s	
Watertightness and resistance to lateral water underflow ASTM D5385 (mod)	SikaProof® A-08	≥ 7.0 bar (101 psi)	
	SikaProof® A-12	≥ 7.0 bar (101 psi)	
VOC Content	N/A		
Chemical Resistance	Consult Sika Canada		

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.

HOW TO USE

Surface Preparation

The surface for the SikaProof® A Edge sheets needs sufficient stability to avoid movement during the construction works.

A smooth, uniform and clean substrate surface is essential to prevent membrane damage. Close large gaps and voids (> 12-15 mm [1/2 in]) before installation of the SikaProof® A Edge sheets. The substrate can be damp or slightly wet.

Note: Do not install over ponding water.

Suitable substrates to fix the SikaProof® A Edge sheets onto include:

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

Application

SikaProof® A Edge sheets are cold-applied and installed before the installation of the SikaProof® A membrane system, the fixing of reinforcement and the placing of concrete.

Joints within SikaProof® A Edge sheets are not welded; they are fully adhered by self-adhesive strips on the membrane itself or with SikaProof® Tapes (Ex or Standard depending upon details). Only the following tools are required: tape measure, marking pen, membrane cutter and pressure roller.

Installation procedure (SikaProof® A Edge plus SikaProof® A membrane system)

1. Ensure the substrate is correctly constructed and prepared.
2. Install the pre-formed SikaProof® A Edge sheet for the perimeters and terminations / connections.
3. Form the corners with the same pre-fabricated SikaProof® A Edge sheet and adhere them externally with SikaProof® ExTape-150 and internally with SikaProof® Tape-150.

Where using SikaProof® Tapes remove release liners from the surface of the butyl rubber adhesive, taking care to ensure the adhesive remains intact and not contaminated by dust, dirt or debris.

Press the butyl adhesive side of the SikaProof® Tapes firmly onto the intended contact face and using a hard roller (ie Leister silicone or rubber seam/wall paper roller) ensure complete contact between tape and substrate.

4. Lay the SikaProof® A membrane on horizontal and vertical surfaces using 1 or 2 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 (internal and external joints respectively).

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 by the SikaProof® Tape-150 and SikaProof® ExTape-150.

7. After the SikaProof® A membrane system is applied, reinforcement can be fixed and the concrete poured.

8. After removing the formwork, penetrations, such as shuttering anchors, or any damage to the membrane can be sealed on the external side (on the membrane) with the SikaProof® Patch-200. Construction joints can be sealed with the Sikadur® Combiflex SG system.

Please refer to the SikaProof® A Method Statement for further information regarding the installation procedure.

Limitations

- SikaProof® A Edge sheets (as per the SikaProof® A membrane system itself) must be installed by Sika trained and recommended contractors.
- SikaProof® A membranes are not permanently UV-stabilized and therefore cannot be installed on structures or surfaces 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 three (3) months.
- SikaProof® A Edge sheets must not be installed during continuous or prolonged rainfall.

Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent SAFETY DATA SHEET containing physical, ecological, toxicological and other safety-related data.

KEEP OUT OF REACH OF CHILDREN
FOR INDUSTRIAL USE ONLY

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, within their shelflife. 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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