

PRODUCT DATA SHEET

SikaMembran® Universal

Vapor/waterproofing membrane for facades - low vapor permeability

TYPICAL PRODUCT DATA

Chemical base	Elastic EPDM - Butyl modified
Color	Black
Mass per unit area	0.8 kg/m ² (0.16 lbf/ft ²)
Thickness	0.6 mm (24 mil)
Equivalent air layer thickness s_d	s_d value 62 m (203 ft)
Elongation at break (ISO 37)	350 %
Application temperature	5 – 40 °C (41 – 104 °F)
Tensile strength (ISO 37)	5.5 MPa (800 psi)
Tear propagation resistance (CQP045-1 / ISO 34)	8 N/mm (45 pli)
Ozone resistance (DIN 1431-1)	200 pphm, 40 °C, 20 % Elongation, 168 h
Service temperature	-40 – 90 °C (-40 – 194 °F)
Shelf life	18 months ^A

CQP = Corporate Quality Procedure ^A) stored in dry conditions between 5 and 30 °C (41 and 86 °F) and protected from direct sunlight

DESCRIPTION

SikaMembran® Universal is an EPDM sheet membrane with a high vapor diffusion resistance (s_d value 62 m or 203 ft) and is thus applicable on both the warm (high vapor pressure) and the cold (low vapor pressure) side of the construction under most climatic conditions.

The SikaMembran® system is a high-performance vapor control system comprising of various EPDM sheet membranes providing vapor control layers and waterproof barriers for curtain walls. They are suitable for most climatic conditions in combination with the appropriate adhesive.

PRODUCT BENEFITS

- Highly flexible waterproofing and vapor control system
- Fast, easy and secure application even in corners
- Provided with CE-mark according to EN 13984: 2011
- Meet fire retardant requirements of EN 13501-1 Class E under free suspension
- No additional mechanical fixing necessary
- Membrane pre-treatment free
- Suitable for uneven substrates (blowholes in concrete), leveling of substrate by adhesive
- Suited to site conditions
- Durable bond and barrier/seal
- Ozone- and UV-resistant

AREAS OF APPLICATION

The flexible SikaMembran® Universal sheets, installed between structure and incorporated units (e.g. facade elements, windows, etc.) using a suitable bonding sealants, for example SikaHyflex®-407 EverFlash Universal, provide a secure and durable vapor barrier, as well as a waterproof seal at transitions between building elements, in curtain wall facades, ventilated facades and window installations.

This product is suitable for experienced professional users only.

Tests with actual substrates and conditions have to be performed ensuring adhesion and material compatibility.

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DESIGN CONSIDERATION

In order to prevent thermal bridging or internal condensation ensure adequate provision of insulation (mineral wool or similar) within the joint prior to sealing.

Always follow local construction and fire regulations.

Design details need to be determined by the responsible engineer and building physicist.

METHOD OF APPLICATION

Surface Preparation

Prior the bonding process ensure that substrates are sound, clean, dry, free from dust, grease, oil and loose particles.

Application

Apply SikaHyflex®-407 EverFlash Universal bonding sealant to the corresponding structure or components (nozzle diameter approx. 8 mm or 5/16 in).

By using a clean spatula, spread the adhesive bead to approx. 4 – 5 cm (1.5 – 2 in) width and 1 mm (1/16 in) thickness.

Install the SikaMembran® Universal sheet tension-free and in a way that movement of the connected building parts can be accommodated without damaging the membrane. Press the membrane sheet on the adhesive by a plastic roller. The membrane must be fully bonded over a width of 4 cm (1.5 in). Where overlaps are required ensure at least an overlap of 5 cm (2 in).

The membrane might be re-adjusted during a period of 30 minutes after installation.

Application Limits

SikaMembran® Universal is not resistant to mineral oils, petroleum, benzene, fuel and toluene etc.

The bond line of the membrane must not be in permanent contact with water.

PACKAGING INFORMATION

Length per roll	25 m (82 ft)
Width of roll	1400 mm (55 in)

FURTHER INFORMATION

The information herein is offered for general guidance only. Advice on specific applications is available on request from the Technical Department of Sika Industry.

Copies of the following publications are available on request:

- General Guideline
SikaMembran® System

BASIS OF PRODUCT DATA

All technical data stated in this document are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LEGAL DISCLAIMER

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 contacting SIKA's Technical Service Department via email at tsmh@us.sika.com. 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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