

## 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 <sup>2</sup>                   |
| Thickness                                       | 0.6 mm                                  |
| Equivalent air layer thickness $s_d$            | $s_d$ value 62 m                        |
| Elongation at break (ISO 37)                    | 350 %                                   |
| Application temperature                         | 5 – 40 °C                               |
| Tensile strength (ISO 37)                       | 5.5 MPa                                 |
| Tear propagation resistance (CQP045-1 / ISO 34) | 8 N/mm                                  |
| Ozone resistance (DIN 1431-1)                   | 200 pphm, 40 °C, 20 % Elongation, 168 h |
| Service temperature                             | -40 – 90 °C                             |
| Shelf life                                      | 18 months <sup>A</sup>                  |

CQP = Corporate Quality Procedure

<sup>A)</sup> stored in dry conditions between 5 and 30 °C and protected from direct sunlight

**DESCRIPTION**

SikaMembran® Universal is an EPDM sheet membrane with a high vapor diffusion resistance ( $s_d$  value 62 m) 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® sheets, installed between structure and incorporated units (e.g. facade elements, windows, etc.) using SikaBond® TF plus N adhesive, provide a secure and durable vapor barrier and waterproof seal at junctions between building elements mainly in curtain wall facades but also in ventilated facades and window installations. This product is suitable for experienced professional users only. Test with actual substrates and conditions have to be performed to ensure 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 SikaBond® TF plus N adhesive to the corresponding structure or components (nozzle diameter approx. 8 mm).

By using a clean spatula, spread the adhesive bead to approx. 4 – 5 cm width and 1 mm 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. Where overlaps are required ensure at least an overlap of 5 cm.

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 [m / roll]   | 25  |
| Width of rolls [mm] | 100, 150,<br>200, 250,<br>300, 350,<br>400, 450,<br>500, 600,<br>700, 1200,<br>1400 |

## 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.

## DISCLAIMER

The information, and, in particular, the recommendations relating to the application and enduse 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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