

## 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® Universal sheets, installed between structure and incorporated units (e.g. facade elements, windows, etc.) using a suitable adhesive, for example Sika-Bond® TF plus N, 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.

## 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, 200, 250, 300, 350, 400, 450, 500, 600, 700, 1200, 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

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## SIKA ABYSSINIA

Chemicals Manufacturing PLC  
Sebeta, Welete · Addis Ababa  
ETHIOPIA  
Phone: +251.113.679.748  
Web: eth.sika.com

