

## PRODUCT DATA SHEET

# SikaMembran® Strong

Vapor/waterproofing membrane for facades - high mechanical resistance

## TYPICAL PRODUCT DATA

Chemical base	Elastic EPDM
Color	Black
Mass per unit area	1.6 kg/m <sup>2</sup>
Thickness	1.2 mm
Diffusion resistance coefficient (DIN 53122-1)	μ 66 000
Equivalent air layer thickness	s <sub>d</sub> value 79 m
Elongation at break (ISO 37)	400 %
Application temperature	5 – 40 °C
Tensile strength (ISO 37)	7.5 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® Strong is robust EPDM sheet membrane with a very high mechanical strength and an s<sub>d</sub> value of 79 m.

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 and secure application
- 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.

## PRODUCT DATA SHEET

SikaMembran® Strong

Version 02.01 (03 - 2022), en\_AE

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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® Strong 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® Strong 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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