BUILDING TRUST

PRODUCT DATA SHEET

SikaMembran® Strong

VAPOR/WATERPROOFING MEMBRANE FOR FACADES - HIGH MECHANICAL RESISTANCE

TYPICAL PRODUCT DATA (FURTHER VALUES SEE SAFETY DATA SHEET)

Chemical base		Elastic EPDM
Color		Black
Mass per unit area		1.6 kg/m²
Thickness		1.2 mm
Diffusion resistance coefficient (DIN 53122-1)	μ	66 000
Equivalent air layer thickness	s_d 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	No cracks
Service temperature		-40 – 90 °C
Shelf life		18 months [A]

CQP = Corporate Quality Procedure

[A] 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_d 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.

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:

- Safety Data Sheets
- General Guideline SikaMembran® System

BASIS OF PRODUCT DATA

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

HEALTH AND SAFETY INFORMATION

For information and advice regarding transportation, handling, storage and disposal of chemical products, users shall refer to the actual Material Safety Data Sheets containing physical, ecological, toxicological and other safety-related data.

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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