

Product Data Sheet
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Sika® Membran System

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For Sealing and Waterproofing Construction Gaps in Building Façades

Construction

Product Description Sika® Membran is an EPDM synthetic rubber waterproofing membrane available in two grades as Sika® Membran Outdoor and Sika® Membran Universal, which offer different defined rates of vapour diffusion.

Uses

- Sealing and Waterproofing Construction Gaps in Building Façades
- Providing Waterproof and Airtight Flexible Seals
- Controlling Vapour Diffusion
- Preventing Interstitial Condensation

Characteristics / Advantages

- Flexible and easy to handle.
- Weather and ageing resistant.
- UV and ozone resistant.
- Will not perish.
- Quality assured with printed logo for easy identification.
- An important aspect of 'Part L' of the Building Regulations' relates to achieving air tightness to building envelopes.
- Measured in m³/hr/m², air permeability describes the resistance of the building envelope to inward or outward air movement. This includes floors, walls and roofs.
- An advantage of the Sika® Membran System, incorporating the SikaBond® TF Plus adhesive, is that it is easy to achieve air tightness to facade construction gaps.
- Continuous watertight as well as airtight seals can be guaranteed around the perimeters of window or curtain wall components.
- All new buildings MUST have robust details designed and specified to ensure the envelope is airtight.
- Compliance with 'Part L' of the Building Regulations can be of real benefit by reducing the size of heating and ventilation systems ultimately achieving significant reductions in heating running costs.



Product Data

Form

Appearance / Colours Black

Packaging 25 m x 0.6mm rolls in widths from 100mm to 1400mm

Storage

Storage Conditions / Shelf-Life Sika® Membran should be stored in dry warehouse conditions between 10°C and 30°C. Shelf life under these circumstances is a minimum of five years.

Technical Data

Chemical Base EPDM synthetic rubber

Sika® Membran		Sika® Membran Universal	Sika® Membran Outdoor Plus	Remarks
	Chemical base		EPDM	EPDM
Density		1.11g/ml	1.22g/ml	ISO2781
Thickness		0.6mm	0.6mm	
μ value		98000	5000	DIN 52 615
Equivalent air gap thickness		Ca 60 m	Ca 3 m	DIN 52 615
Moisture vapour transmission rate		0.37 g/m ² /day	0.56 g/m ² /day	
Elongation at break		Ca 400%	Ca 400%	ISO 37-2
Tear strength		Ca 6 N/mm ²	Ca 5 N/mm ²	
Tear propagation resistance		Ca 11 N/mm ²	Ca 10 N/mm ²	ISO 34-A
Size change after heat ageing 24 hr, 100°C		Ca 0.5%	Ca 0.5%	
Ozone resistance 40°C 20% rec 168h		No Cracks	No Cracks	DIN 1431/1
Root resistance		Root resistant	Root resistant	
Fire rating		4.3/B2	4.3/B2	DIN 4102
Self adhesive strip peel strength				DIN 53 289

SikaBond® TF Plus		Characteristics	Remarks
	Chemical Base		1 part polyurethane
Density		Ca 1.25g/ml	DIN 53 479
Stability		Very good	
Tensile Strength		1.8 N/mm ²	DIN 53 504
Peel Strength		Ca 1 N/mm ²	DIN 53 289
Elongation at break		>500%	DIN 53 504
Skin Forming		50 minutes	Standard Atmosphere to DIN 50 014-23/50-2
Hardness Shore A		Ca 35	DIN 53 505
Application Temperature		+5°C to +25°C	
Service Temperature		-40°C to +90°C	

System Information

Application Details

Substrate Quality	Clean and dry, homogeneous, free from oils and grease, dust and loose or friable particles. Cement laitance, poorly adhering particles and incompatible paints must be removed.
Substrate Preparation/ Priming	Surfaces must be clean, dry and free from oil, grease, dust and loose or friable particles. Paint, cement laitance and any other contaminants must be removed. Clean non-porous surfaces with Sika® Cleaner-205. Clean porous surfaces by brush and/or vacuum. For porous substrates exposed to frequent water contact use Sika® Primer-3 N.

Application Conditions / Limitations

Substrate Temperature	+5C min. / +40C max.
Ambient Temperature	+5°C min. / +40°C max.
Substrate Moisture Content	Dry.
Application Method / Tools	SikaBond® -TF plus N is supplied ready to use. Only apply SikaBond® -TF plus N after substrate preparation. Insert sausage into sealant gun and cut nozzle to a diameter of not less than 8mm, and firmly extrude bead of adhesive. Spread SikaBond® -TF plus N by means of a spatula to approx 4-5 cm width@ 1mm thickness (dependant on substrate profile). Place SikaMembran® onto the SikaBond® -TF plus N and apply pressure along membrane using a plastic roller. Ensure excess extruded SikaBond® -TF plus N is tooled off by trowel. Optimum bonding will be obtained after complete curing of SikaBond® -TF plus N

Consumption	Theoretical consumption of SikaBond® -TF plus N per 600cc sausage 8mm bead (without wastage): Approx. 6-7 linear metres dependant on substrate profile.
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Cleaning of Tools	Clean all tools and application equipment with Sika® Remover-208 immediately after use. Hardened / cured material can only be removed mechanically.
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Notes on Application / Limitations	SikaBond -TF plus N should not be used for structural glazing. Protect the finished joint from water for at least 1 hour. Large Membran strips may require additional holding or support during curing period. Do not use SikaBond® -TF plus N in contact with materials containing bitumen or pitch.
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Value Base	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.
Local Restrictions	Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.
Health and Safety Information	For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.
Legal Notes	The information, and, in particular, the recommendations relating to the application and end-use 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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