

PRODUCT DATA SHEET

SikaMembran® Active FSB+

Fully self-adhesive connection joint membrane with variable water vapour diffusion

PRODUCT DESCRIPTION

Fully self-adhesive high-performance membrane for interior and exterior sealing connection joints and ET-ICS facades with variable s_d value. Complex connection details can be refinished with the system adhesive SikaBond®-444 Membrane Fix.

USES

- Sealing of connection joints in buildings and ETICS facades
- Sealing of hole windows and doors
- Reciprocal connection
- Suitable for smooth surfaces, e.g. planed and coated wood, many plastics and metals as well as formwork smooth concrete

CHARACTERISTICS / ADVANTAGES

- Flexible, robust and ductile membrane
- Fully self-adhesive with finger lift for quick and precise installation
- Very high tack of the pressure sensitive adhesive
- Processable down to -10 °C
- Simple and safe application
- Variable s_d value
- Only one membrane for indoor and outdoor applications
- Allows rapid drying of the facade construction in summer and winter
- Can be plastered-over
- Economical

PRODUCT INFORMATION

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|----------------------------|--|------------------------|---------------|---------------|
| Chemical Base | Carrier fleece: | Polypropylene | | |
| | Performance membrane: | Polyethylene copolymer | | |
| | Pressure sensitive adhesive: | SikaMelt® | | |
| Packaging | Width | Length | Carton | Pallet |
| | 80 mm | 25 m | 6 rolls | 64 cartons |
| | 100 mm | 25 m | 6 rolls | 52 cartons |
| | 150 mm | 25 m | 4 rolls | 54 cartons |
| | 200 mm | 25 m | 2 rolls | 84 cartons |
| | 250 mm | 25 m | 2 rolls | 60 cartons |
| | 300 mm | 25 m | 2 rolls | 50 cartons |
| | 350 mm | 25 m | 2 rolls | 50 cartons |
| Shelf Life | In unopened original packaging: 24 months from date of production | | | |
| Storage Conditions | Storage temperature between +5 °C and +25 °C. Store in a cool and dry place. Protect from direct sunlight. | | | |
| Appearance / Colour | Anthracite | | | |
| Thickness | ~ 0.45 mm | | | (EN 1849-2) |

SYSTEM INFORMATION

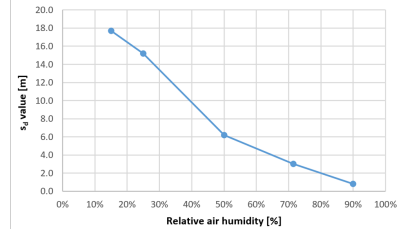
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| Compatibility | System adhesives SikaBond®-444 Membrane Fix |
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TECHNICAL INFORMATION

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| Service Temperature | Min. -40 °C, max. +80 °C |
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| Resistance to Water Penetration | ~ 24.5 kPa | (Corresponds to a water column of ~ 2.45 m.) |
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Equivalent Air Layer Thickness for Water Vapour The equivalent air layer thickness of SikaMembran® Active FSB+ varies between 0.5 m and 20 m, depending on the relative humidity.



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| Permeability to air | Airtight | (EN 12114) |
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| UV Exposure | Bonded membrane: | Max. 9 months |
| | Loose membrane: | Max. 2 months |

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| Reaction to Fire | E | (EN 13501-1) |
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Design Considerations

In order to prevent thermal bridges or condensation formation, an appropriate thermal insulation (mineral wool or similar) must be used in the joint space in addition to suitable joint sealing.

The active variability of the s_d value of SikaMembran® Active FSB+ allows a tighter seal indoors in winter than outdoors with the same membrane. Thus, vapour diffusion can be maintained in winter with the proven principle: "inside denser than outside" (s_d warm > s_d cold).

In summer, the active variability of the s_d value enables rapid and uniform drying of the building connection inwards and outwards.

Construction details should always be determined by the responsible engineer and building physicist.

APPLICATION INFORMATION

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| Ambient Air Temperature | Min. -10 °C, max. +40 °C |
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| Substrate Temperature | Min. -10 °C, max. +40 °C Below +5 °C, it must be ensured that the substrate is free of ice. |
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VALUE BASE

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

LIMITATIONS

SikaMembran® Active FSB+ consists of two layers, the carrier fleece (printed side) which can be plastered-over and the glossy membrane layer.

For a permanently functional connection joint, the membrane layer must always be bonded to the substrate.

If SikaMembran® Active FSB+ is to be plastered over, min. 75 % of the membrane must be bonded. Keep the functional zone free at the joint! Keep the carrier fleece that can be plastered over as free as possible of adhesive, embed max. 10 mm over the edge.

Never use SikaMembran® Active FSB+ with solvent-based adhesives and sealants, e.g. SikaBond® TF Plus N, as these can destroy the membrane layer.

Use SikaMembran® Active FSB+ only with approved system adhesives. In case of contact with other adhesives, the compatibility with SikaMembran® Active FSB+ must be checked.

The membrane layer should not be permanently exposed to direct or indirect sunlight, as this can lead to delamination between the carrier fleece and the membrane.

Apply pressure sensitive adhesive only to smooth substrates and ensure sufficient contact pressure with plastic or rubber rollers. Insufficient contact pressure of the pressure sensitive adhesive can have a negative effect on the adhesive strength.

SikaMembran® Active FSB+ should be visually checked for local detachment of the membrane layer prior to final bonding. This check is particularly important for rolls that have already been started.

ECOLOGY, HEALTH AND SAFETY

REGULATION (EC) NO 1907/2006 - REACH

REGULATION (EC) NO 1907/2006 - REACH: This product is an article as defined in article 3 of regulation (EC) No 1907/2006 (REACH). It contains no substances which are intended to be released from the article under normal or reasonably foreseeable conditions of use. A safety data sheet following article 31 of the same regulation is not needed to bring the product to the market, to transport or to use it. For safe use follow the instructions given in this product data sheet. Based on our current knowledge, this product does not contain SVHC (substances of very high concern) as listed in Annex XIV of the REACH regulation or on the candidate list published by the European Chemicals Agency in concentrations above 0.1 % (w/w).

APPLICATION INSTRUCTIONS

For the processing of SikaMembran® Active FSB+ the general rules of architecture must be applied.

SUBSTRATE PREPARATION

The substrate must be sound, clean, dry and free of all contaminants such as dirt, oil, grease, wax, old adhesive residue and poorly bonded paint coatings which could affect adhesion.

APPLICATION METHOD / TOOLS

Select the necessary width of SikaMembran® Active FSB+ and shorten it to the desired length.

Carefully remove narrow, unmarked separating foil at the beginning of the pressure sensitive adhesive at approx. 5 - 10 cm and fold to the side.

Fix SikaMembran® Active FSB+ in place and completely remove the release film while pressing SikaMembran® Active FSB+ with the palm of your hand.

Applied SikaMembran® Active FSB+ can be corrected and reapplied in the first few minutes.

Pull out the wide separating foil at the beginning of the pressure sensitive adhesive while pressing SikaMembran® Active FSB+ with the palm of your hand.

Press SikaMembran® Active FSB+ well with a plastic or rubber roller.

Notes

For an optimal final sealing SikaMembran® Active FSB+ should be cut to length on a lateral adhesive strip.

For complex transitions it is recommended to refinish SikaMembran® Active FSB+ with SikaBond®-444 Membrane Fix.

Overlaps and terminations must be performed ≥ 60 mm.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

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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