

## PRODUCT DATA SHEET

# Sarnavap®-5000 E SA FR

Self-adhesive, fire-reduced vapour barrier

## DESCRIPTION

Sarnavap®-5000 E SA FR is a self-adhesive, multi-layered, fire-reduced vapour barrier. It is manufactured from polymer-modified bitumen with glass-fibre mat reinforcement and an aluminium top foil layer.

## USES

Sarnavap®-5000 E SA FR may only be used by experienced professionals.

Sarnavap®-5000 E SA FR is used as a vapour barrier over metal decks.

## FEATURES

- Fast and easy installation using self-adhesive product
- Good adhesion strength leading to an airtight roof construction
- Good tear resistance to foot traffic during the construction phase
- High water vapour diffusion resistance makes it suitable in combination with all types of membranes
- Complies with the requirements of DIN 18234-1 (< 11600 kJ/m<sup>2</sup>)

## CERTIFICATES AND TEST REPORTS

- CE marking and declaration of performance based on EN 13970:2004/A1:2006
- Fire resistance according to DIN EN 13501-1
- Complies with the requirements of DIN 18234-1

## PRODUCT INFORMATION

Composition	Polymer-modified bitumen (self-adhesive) with composite aluminium as top layer	
Packaging	Roll length	40.00 m
	Roll width	1.08 m or 1.38 m
	Unit weight	17.20 kg for 1.08 m width or 22.00 kg for 1.38 m width
Appearance and colour	Top surface	Aluminium foil with PET film
Shelf life	12 months from date of production	
Storage conditions	The Product must be stored in original unopened and undamaged sealed packaging in dry conditions and temperatures between +5 °C and +30 °C. Store in a horizontal position. Do not stack pallets of the rolls on top of each other, or under pallets of any other materials during transport or storage. Always refer to the packaging.	

Visible defects	No visible defects	(EN 1850-1)
Length	40.00 m (+2 %)	(EN 1848-1)
Width	1.08 / 1.38 m ( $\pm 1$ %)	(EN 1848-1)
Thickness	0.40 mm (+2 %)	(EN 1849-1)
Mass per area	400 g/m <sup>2</sup> ( $\pm 100$ g/m <sup>2</sup> )	(EN 1849-1)

## TECHNICAL INFORMATION

Resistance to impact	Hard substrate	$\geq 150$ mm	(EN 12691)
	Soft substrate	$\geq 600$ mm	
Tensile strength	$\geq 700$ N/50 mm		(EN 12311-1)
Tensile strain at break	$\geq 2$ %		(EN 12311-1)
Tear strength	$\geq 100$ N		(EN 12310-1)
Joint shear resistance	$> 500$ N/50 mm		(EN 12317-2)
Foldability at low temperature	$-20$ °C		(EN 1109)
Reaction to fire	Class E		(EN 13501-1)
Resistance to alkalinity	Pass		(EN 1847)
Artificial ageing	Pass		(EN 1931; EN 1296)
Water-vapour transmission rate	$\geq 1800$ m		(EN 1931)
Watertightness	Pass		(EN 1928)

## APPLICATION INFORMATION

Ambient air temperature	Minimum	+5 °C
Substrate temperature	Minimum	+5 °C

## SYSTEM INFORMATION

System structure

The following products may be necessary, depending on the roof design:

- Sarnafil® T Prep/Clean
- Solvent T-660
- SikaRoof® Primer-600

Priming for substrates and adjoining substrates:

Substrate	Primer
Metal decking	None
Adjoining substrates: metal, plasticiser-free synthetics, bituminous materials (granules removed)	None
Wood	Primer-600
Vertical areas or upstands and flashings	Primer-600

Porous substrates require 2 coats of SikaRoof® Primer-600 at 200 g/m<sup>2</sup> per coat.

## Compatibility

The roof deck must be made of metal.

The adjoining substrates (such as parapets and chimneys) can be one of the following materials:

- Concrete
- Metal
- OSB panels
- Plywood panels
- Timber boards
- Masonry
- Plasticiser-free synthetics
- Bituminous materials after sand, granules, chippings and surfacing have been removed

For other substrate types, contact Sika Technical Services.

## BASIS OF PRODUCT DATA

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

## ECOLOGY, HEALTH AND SAFETY

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 the 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

### SUBSTRATE QUALITY

The substrate surface must be smooth and uniform.

1. Remove any sharp protrusions or burrs from the substrate.

The supporting layer must be compatible with the membrane, resistant to solvents and dry.

1. If contaminants such as grease or dust are present, clean the supporting layer.
2. Ensure that the supporting layer is dry.

### SUBSTRATE PREPARATION

#### GENERAL

The substrate must be dry, uninterrupted, even, capable to bear loads, free of dust and grease and must not repel adhesives.

Use the appropriate preparation equipment to achieve the required substrate quality.

### WOOD

Always prime wood substrates regardless of the fixation method (mechanically fastened or ballasted).

1. Apply SikaRoof® Primer-600 at the required consumption, refer to the individual Product Data Sheet.

### ADJOINING SUBSTRATES

Any adjoining substrates must be primed prior to the application of the Product.

1. Apply SikaRoof® Primer-600 at the required consumption, refer to the individual Product Data Sheet.

### APPLICATION

#### IMPORTANT

##### Application by trained personnel

The application of this Product must only be carried out by an applicator that is trained or approved by Sika. The applicator must also be experienced in this type of application.

#### IMPORTANT

##### Strictly follow installation procedures

Strictly follow installation procedures as defined in Method Statements, application manuals and working instructions which must always be adjusted to the actual site conditions.

#### IMPORTANT

##### Bonding at low temperatures

If the Product is to be applied between +5 °C and +10 °C ambient temperature, heat the seams first using hot-air welding equipment before rolling with a pressure roller.

#### PRODUCT DATA SHEET

Sarnavap®-5000 E SA FR

October 2025, Version 04.01

020945303100000002

## PRIMING

1. Apply SikaRoof® Primer-600 to the prepared substrate where required, at the required consumption.

## ALIGNMENT

Profiled metal decks:

1. **IMPORTANT** Do not stretch the Product or install it under tension. Lay the sheets in the direction of the deck ribs. Note Where side or longitudinal overlap seams occur, they must be fully supported by aligning over the full surface of a top rib.

All deck types:

1. **IMPORTANT** Do not stretch the Product or install it under tension. Unroll a sheet and align in the correct position.
2. Roll out and align subsequent sheets, taking into consideration the overlap seam requirements.

## OVERLAP SEAMS

Side or longitudinal	75 mm
End joints or T-joints	75 mm

1. Roll down the Product firmly using a pressure roller or by applying pressure to seal overlap seams.
2. If seams are not immediately closed after unrolling the Product, all seams must be cleaned with SikaRoof® Cleaner L-100, Sarna® Cleaner or Sarnafil® T Prep. Allow the cleaners to evaporate completely before bonding.

Profiled metal decks:

1. At the end of the rolled sheet, apply an additional 20 cm wide support strip of the Product.
2. Position the Product so it aligns perpendicular to the deck rib direction. This provides continuous support over the ribs allowing the ends of the sheets to be fully bonded.

## BONDING

1. Check the alignment of the sheets before bonding and re-align where necessary.
2. At one end of the sheet, peel away part of the release liner from the underside and bond this part to the substrate.
3. Peel away the release liner sideways from the rest of the sheet to allow it to bond to the substrate.
4. Roll the entire surface area of the applied membrane with a heavy roller.
5. At T-joints, mitre the edges of the middle cover sheet at 45° and secure with a 30 cm by 30 cm piece of the membrane.
6. After bonding into position, use a small pressure roller to firmly press together all overlaps, including the sheet bevels.

### Sika Deutschland CH AG & Co KG

Kornwestheimer Straße 103 - 107  
D - 70439 Stuttgart  
Tel.: +49 711 8009-0  
Fax: +49 711 8009-321  
info@de.sika.com  
www.sika.de

## 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.

### PRODUCT DATA SHEET

Sarnavap®-5000 E SA FR  
October 2025, Version 04.01  
020945303100000002

Sarnavap-5000ESAFR-en-DE-(10-2025)-4-1.pdf