BUILDING TRUST

PRODUCT DATA SHEET

Sikavap-5000 E SK AL

Self-adhesive reinforced vapour barrier

PRODUCT DESCRIPTION

Sikavap-5000 E SK AL is a self-adhesive, multi-layered, vapour barrier manufactured with a glass-fibre mat reinforcement and an aluminium foil top layer. The bottom layer consists of a hot melt adhesive with a release liner.

USES

The Product is used as a:
- A vapour barrier over metal and wooden decks in combination with mechanically fastened roof construction
- A temporary waterproofing layer for up to 4 weeks

Please note:
- The Product may only be used by experienced professionals.
- The Product may only be used in combination with a mechanically fastened roof assembly.
- Do not use as a permanent waterproof layer.

CHARACTERISTICS / ADVANTAGES

- High water vapour resistance makes it suitable in combination with all types of membranes
- Temporary waterproofing layer without the need for additional weight, ballast or mechanical fastenings
- Good adhesion strength leading to an air tight roof construction
- Fast and easy installation using self-adhesive properties
- Good tear resistance to foot traffic during roof build up activities
- Can be bonded onto different types of substrates

APPROVALS / STANDARDS

- CE marking and declaration of performance based on EN 13984:2013 Flexible sheets for waterproofing — Plastic and rubber vapour control layers — Definitions and characteristics

PRODUCT INFORMATION

Product Declaration	EN 13970: Bitumen water vapour control layers	
Chemical Base	Glass-fibre mat reinforcement and aluminum foil top layer with a bottom layer of a hot melt adhesive and release liner.	
Packaging	Width	1.50 m
	Length	50 m
	Refer to the current price list for available packaging variations.	
Shelf Life	12 months from date of production	
Storage Conditions	Product must be stored in original unopened and undamaged packaging in dry conditions, without UV light exposure and temperatures between +5 °C and +30 °C. 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 packaging.	

Appearance / Colour	Surface	Aluminum foil with PET film
Visible Defects	Pass	(EN 1850-1)
Length	(50 ± 1) m	(EN 1848-1)
Width	(1.50 ± 0.15) m	(EN 1848-1)
Thickness	(0.17 +0.01 / -0.02) mm	(EN 1849-1)
Straightness	Pass	(EN 1848-1)
Mass per unit area	135 g/m² (without liner)	(EN 1849-1)

SYSTEM INFORMATION

System Structure

The following products must be considered for use depending on roof design:
- Sika® Trocal Cleaner L-100
- Sarna Cleaner
- Sarnafil® T Prep
- Solvent T-660
- Primer-600

Priming for metal decking and adjoining substrates:

Substrates	Primer
Metal decking	None
Adjoining substrates: Plywood, OSB, metal or steel, plasticiser-free synthetics, bituminous materials	None
Vertical areas or upstands and flashings	Primer-600

Compatibility

The adjoining substrates can be one of the following materials:
- Concrete
- Metal
- Oriented Strand Boards (OSB)
- Plywood panels
- Timber boards
- Masonry
- Wood
- Plasticiser-free synthetics (except for rigid polystyrene)
- Bituminous materials (after sand, granules, chippings and surfacing have been removed)

TECHNICAL INFORMATION

Resistance to Impact	Pass		(EN 12691)
Tensile Strength	> 300 N/50 mm		(EN 12311-1)
Elongation at Break	> 5.0 %		(EN 12311-1)
Tear Strength	> 65 N/m²		(EN 12310-1)
Joint Shear Resistance	> 250 N/50 mm		(EN 12317-2)
Foldability at Low Temperature	-20 °C		(EN 1109)
Water Tightness	Pass		(EN 1928)
Equivalent Air Layer Thickness for Water Vapour	S_d value	≥ 1500 m	(EN ISO 151006-3)
Resistance to Alkalinity	Pass		(EN 1847)

Artificial Ageing	Pass	(EN 1931; EN 1296)
Reaction to Fire	Class E	(EN 13501-1)

APPLICATION INFORMATION

Ambient Air Temperature	+5 °C minimum
Substrate Temperature	+5 °C minimum

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.

ECOLOGY, HEALTH AND SAFETY

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

SUBSTRATE QUALITY

The supporting structure must be of sufficient structural strength to apply all new and existing layers of the roof build-up and the complete roof system must be designed and secured against wind uplift loadings. The substrate must be uniform, firm, smooth and free of any sharp protrusion or burrs, clean, dry, free of grease, bitumen, oil, dust and loose surface sand or gravel dressing.

SUBSTRATE PREPARATION

Use the appropriate preparation equipment to achieve the required substrate quality.
Any dust must be completely removed before application of the Product by suitable dust extraction equipment.

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.
PRIMING

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

ALIGNMENT
Profiled metal decks:

1. The sheets must be laid in the direction of the deck ribs. Where side or longitudinal overlap seams occur, they must be fully supported by aligning over the full surface of a top rib.

OVERLAP SEAMS

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

1. The Product must be rolled down firmly with 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 Sika® Trocal 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
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. Hot-air welding equipment (for instance Leister Triac) must be set at ~+300 °C with a speed of ~5 m/min.

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, the edges of the middle cover sheet must be mitred at 45°.
6. After bonding into position, use a small pressure roller to firmly press together, all overlaps including the sheet bevels.

DETAILING

1. All details such as internal and external corners, upstands, vent pipes, support metalwork must be cut and sealed effectively.
2. The Product must always be attached on the warm side of the thermal insulation. The upper edge of the Product must be taken up to the top edge / surface of the insulation.

TEMPORARY WATERPROOFING

1. If the Product is to provide a temporary waterproofing layer during construction (up to 4 weeks), a slope of at least 2 % (~1.1°) must be provided to ensure drainage with no standing water.
2. Roof drainage lines must be adequately sized for the anticipated usage.

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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