

# PRODUCT DATA SHEET

## S-Vap HD SA

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### PRODUCT DESCRIPTION

S-Vap® HD SA is an elastomeric self-adhesive vapour control layer made of polymer modified bitumen with an aluminium composite and glass combination inlay. The top surface has a sanded finish.

### USES

Vapour control layer (VCL) is applied over most common substrates such as concrete, metal decks, plywood, timber boards and/or oriented strand fibre board (OSB) deck.

Special application within adhered systems:

- Adhered system: Self-adhesion strength limits max wind uplift design load
- Combined adhered system: Self adhesion strength is part of wind uplift design

Temporary waterproofing layer: S-Vap® HD SA can also be used as temporary waterproofing layer, as top layer can be left exposed for up to 4 weeks.

Important: If used in an adhered roof build-up, additional installation requirements must be applied e.g. use of Primer 610/600 to achieve full self adhesion strength:

- Self adhesion strength on metal decks, in combination with Primer 610/600 max. design load of 2.4 kN/m<sup>2</sup>
- Self-adhered on concrete deck in combination with Primer 610/600 max. design load 2.4 kN/m<sup>2</sup>.

Self-adhered on plywood/OSB deck in combination with Primer 610/600 max. design load 2.4 kN/m<sup>2</sup>.

### CHARACTERISTICS / ADVANTAGES

- Ease and speed of installation, due to self-adhesive property of backing.
- Can be used in a totally adhered roof build-up. No additional fasteners required for securing the thermal insulation boards to the structural deck.
- Can be used as temporary waterproof layer for up to 4 weeks, as a top layer without the need for addition-

- al weight/ballast and/or mechanical fastening.
- Due to its high adhesion strength the VCL can withstand high wind loads; design load up to 2.4 kN/m<sup>2</sup>.
- High adhesion/bonding strength leading to an air tight roof construction.
- High tearing resistance under foot traffic makes it ideal for use on profiled metal decks.
- High water vapour resistance makes it suitable in combination with all membranes.
- Wide application range, in regard to use in different system applications and/or in combination with different structural deck types, substrates.
- Improved fire resistance achieved by added flame-retardant.

Can be bonded on roof slopes and up vertical abutments.

### APPROVALS / STANDARDS

- CE marking according EN 13970
- Reaction to fire according to EN 13 501-1
- Quality management system EN ISO 9001

## PRODUCT INFORMATION

<b>Chemical Base</b>	Polymer modified bitumen with an aluminium composite and glass combination inlay and a PE-LD release liner.	
<b>Packaging</b>	Packing unit:	see price list
	Roll length:	15m
	Roll width:	1m
	Approx. Roll weight:	35kg
<b>Appearance / Colour</b>	Surface:	Sanded.
<b>Shelf Life</b>	The product must be installed within 12 months of production date.	
<b>Storage Conditions</b>	Store rolls in vertical position and protected against sunlight, rainfall, snow and heat. During cold weather the rolls shall be protected against frost. Do not stack pallets of rolls during transport or storage.	
<b>Product Declaration</b>	EN 13970	
<b>Length</b>	15.00 m ( $\pm 2\%$ ) EN 1848-1	
<b>Width</b>	1.00 m ( $\pm 1\%$ ) EN 1848-1	
<b>Effective Thickness</b>	2.00 mm ( $\pm 10\%$ )	EN 1849-1
<b>Straightness</b>	Pass	EN 1848-1
<b>Tensile Strength</b>	$\geq 1200 / 1000$ N/50mm EN 29073-3	
<b>Elongation at Break</b>	$\geq 2\%$ EN 29073-3	
<b>Reaction to Fire</b>	Class E	EN ISO 11952-2: 2002, classification to EN 13501-1
<b>Water Vapour Transimission</b>	$> 1000$ m	EN 1931

## SYSTEM INFORMATION

<b>System Structure</b>	Ancillary, complementary products according to local price list: <ul style="list-style-type: none"><li>▪ Sika® Primer 610/600 on concrete, metal deck and plywood/OSB substrates</li><li>▪ Sika® C-250 Spray and Sarnacol® 2162® to adhere specified insulation board onto S-Vap® HD SA</li><li>▪ Sarna Cleaner®</li><li>▪ Sarnafil® T Prep</li><li>▪ Solvent T 660</li></ul>
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## APPLICATION INFORMATION

<b>Ambient Air Temperature</b>	Temperature limits for the installation of the S-Vap® HD SA without warming: Ambient temperature: at least +10 °C min.
<b>Substrate Temperature</b>	Temperature limits for the installation of the S-Vap® HD SA without warming: Substrate temperature: at least +10 °C min.

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY

Before beginning to adhere the S-Vap HD SA®, the substrate must be checked (clean without any surface contamination, free of foreign objects and or surface toppings, oil and grease free, and dry).

### APPLICATION

#### Fixing Method – Adhered Systems:

S-Vap® HD SA is adhered to the substrate. In case of a concrete, metallic or plywood/OSB substrate Primer 610/600 must be applied as substrate treatment, to achieve the required adhesion strength.

An approved thermal insulation board must be selected. In an adhered system, the specified thermal insulation board is being adhered to the S-Vap® HD SA, using the Sika® C-250 Spray or Sarnacol® 2162/Sika® C-200.

Finally the selected Sika® Roofing membrane is adhered to the surface of the insulation board

### APPLICATION METHOD / TOOLS

Before beginning to adhere the S-Vap HD SA®, the substrate must be checked (clean without any surface contamination, free of foreign objects and or surface toppings, oil and grease free, and dry). To ensure an adequate bond the minimum substrate or ambient air temperature should be 10°C.

On profiled metal decks, the sheets must be laid in the direction of the deck, where the side/longitudinal seams are fully supported, positioned on the top flange of the profiled metal deck. At the end of the roll, an additional 20 cm wide S-Vap® HD SA strip has to be adhered firmly on the already laid VCL sheets, positioned on centre and running perpendicular to the deck direction (laid rolls). This provides a firm backing to which the ends of the sheets can be adhered to.

S-Vap® HD SA seams (side and end laps) are formed with an overlap of 8 cm by self-adhesion, no additional primer needed. To achieve tightly sealed seams the laps must be rolled down firmly with a pressure roller (silicone roller) or by applying pressure.

If the S-Vap® HD SA serves as a temporary waterproofing layer (max. 4 weeks during construction) it is necessary to have all seams heated first before firmly rolled down with a pressure roller.

Roll out first S-Vap® HD SA in the direction of the metal profile. Following rolls must be rolled out and aligned with the line marking which marks the overlap area at 8 cm. Adhere the first part of the self-adhesive vapour barrier and peel away the release liner sideways.

At T-joints the edge of the middle, covered sheet is to be bevelled at 45°. Using a silicone roller, all laps including the steps at bevels are to be firmly pressed together after being adhered into position. All flashings, upstands and penetrating elements e.g. vent pipe must be closed airtight, whereby the S-Vap® HD SA must always be attached on the warm side of the insulation.

The full area of S-Vap® HD SA must be pressed into place immediately after adhering, using pressure roller or similar.

OSB and Plywood boards of more than 50 cm width are not primed at the joints. Leave a strip of max. 10 cm width free of primer each side of the joint, to facilitate smaller movements of the boards. Where the width of the OSB or Plywood boards is less than 50 cm, the boards are primed with Primer 610 to a full spread. If the S-Vap® HD SA layer is to serve as temporary waterproofing during construction (for up to 4 weeks), a slope of at least 1:80 must be provided to ensure drainage with no standing water. Roof drainage lines must be adequately sized.

### LIMITATIONS

Installation works shall be performed only by Sika Sarnafil® Registered Roofing Contractors.

S-Vap® HD SA is not suitable as permanent waterproofing. It is not designed as roofing membrane and there-

fore cannot replace the waterproofing membrane.

### 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.

### 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.

### ECOLOGY, HEALTH AND SAFETY

#### 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.

**TECHNICAL ENQUIRIES**

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