

S-vap 500E

Vapour control layer

Product Description

S-vap 500E is an unsupported vapour control layer based on PE-reclaim.

Uses

- Vapour control layer (VCL) is applied over most common substrates. Substrates should be smooth, dry and strong enough to support foot traffic.
- If the substrate surfaces is rough (e.g. raw concrete or sloped topping), install a levelling layer beneath S-vap 500E.
- S-vap 500E vapour control layer is used for flat roofs (only for PVC roofing membranes)

Characteristics / Advantages

- Ease and speed of installation
- Stays flexible at low temperatures
- Long life-span
- Non-decaying
- Constant vapour diffusion resistance
- 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.
- Recyclable

Tests

Approvals / Standards

- CE marking according EN 13984
- Reaction to fire according to EN 13 501-1
- Quality management system EN ISO 9001/14001

Product Data

Form

Appearance Surface: smooth, PE-LD foil with S-vap printed on it.

Colour White

Packaging

Packing unit:	see price list
Roll length:	25.000 m
Roll width:	5.000 m
Roll weight:	18.125 kg

Storage

Storage Conditions Store rolls in horizontal position on a smooth surface and protected from direct sunlight, rain and snow.

Do not stack pallets of rolls during transport or storage.

Shelf-Life

The product does not expire during correct storage.



Technical Data		
Product Declaration		EN 13984
Material Basis	Low density polyethylene (PE-LD) foil.	
Length	25.00 m (± 2 %)	EN 1848-2
Width	5.00 m (± 1 %)	EN 1848-2
Thickness	0.15 mm (± 20 %)	EN 1849-2
Mass per unit area	145 g/m ² (± 15 %)	EN 1849-2
Straightness	Pass	EN 1848-2
Visible defects	Pass	EN 1850-2
Reaction to fire, freely suspended	Class E	EN ISO 11925-2: 2002, classification to EN 13501-1
Water vapour permeability	100 m (± 25)	EN 1931
Water tightness	Pass	EN 1928
Tensile properties, maximum tensile force:		EN 12311-2
longitudinal	≥ 130 N/50 mm	
transverse	≥ 130 N/50 mm	
Elongation:		EN 12311-2
longitudinal	≥ 400 %	
transverse	≥ 400 %	
Resistance to impact	≤ 100 mm	EN 12691
Resistance to tearing (nail shank)		EN 12310-1
longitudinal	≥ 60 N	
transverse	≥ 60 N	
Joint strength	≥ 55 N/50 mm	EN 12317-2
Durability against alkaline	No performance determined	Annex C
Durability against artificial ageing	Pass	EN 1296/EN 1931

System Information

System Structure Ancillary, complementary products:
– S-vap Tape F (for sealing overlap airtight)

Application Details

Substrate Quality Substrates should be smooth, dry and strong enough to support foot traffic.

Substrate Preparation If the substrate surfaces is rough (e.g. raw concrete or sloped topping), install a levelling layer beneath S-vap 500E.

Application Conditions / Limits

Temperatures The use of S-vap 500E vapour control layer is limited to geographical locations with average monthly minimum temperatures of -50°C.
Permanent ambient temperature during use is limited to +50°C.

Resistance Not applicable for permanent exposure to UV irradiation.

Installation Instructions

Application Method According to the valid installation instructions S-vap 500E can be installed loose laid over any smooth surface with all side and end laps overlapped a minimum 80 mm and sealed with S-vap Tape F (jointing tape). At parapets and upstands, the S-vap 500E must be carried up to the upper edge of the thermal insulation and sealed to the upstand/penetration, to form an airtight seal.

Before the application of S-vap 500E, the substrate must be checked. S-vap 500E should be laid on substrate surfaces that are smooth, dry, clean and strong enough to support foot traffic. If the substrate surface is rough (e.g. raw concrete or sloped topping), install a levelling layer beneath S-vap 500E.

S-vap 500E is loose laid. It is light, so it must be covered (ballasted) immediately with the next layer of the roof build-up. If S-vap 500E is installed on a vertical surface the upper edge must be mechanically attached (except at common base flashing height).

Contact surfaces of seams must be clean and dry for adhering. Adjoining sheets must overlap 80 mm. Seams are to be sealed tightly with S-vap Tape F.

Installation Procedure

1. Unroll the S-vap 500E over the structural deck and temporarily weight in position.
 2. Unroll the next roll of S-vap 500E positioning so as to ensure a minimum 80mm overlap.
 3. Fold back the top sheet of S-vap 500E and apply S-vap Tape F (jointing tape) to the bottom sheet.
 4. Peel off release tape and carefully fold back the top sheet of S-vap 500E ensuring no wrinkles or creases are formed.
 5. Apply pressure to the top sheet of S-vap 500E with a welding roller ensuring good adhesion to the S-vap Tape F. On metal decks the lap should be fully supported in order to apply the correct bonding pressure.
 6. At transverse joints an airtight bond is achieved by trimming the edge of the upper sheet at 45°.
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**Notes on Installation/
Limits**

Installation works shall be performed only by Sika instructed contractors for roofing.

Temperature limits for the installation of the S-vap 500E:

Substrate temperature: -30 °C min. / +60 °C max.

Ambient temperature: -20 °C min. / +60 °C max.

Installation of some ancillary products, e.g. contact tapes and Primer is limited to temperatures above +5°C. Please refer to the respective Product Data Sheets. Special measures may be compulsory for installation below +5°C ambient temperature due to safety requirements in accordance with national regulations.

Note:

S-vap 500E is not suitable as permanent waterproofing. It is not designed as roofing membrane and therefore can not replace the waterproofing membrane.

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.
Ecology, Health and Safety Information	The product does not fall within the EC-regulation of hazardous goods. As a result, a material safety data sheet following EC-Guideline 91/155 EWG is not needed to bring the product to the market, transport or use it. The product does not damage the environment when used as specified.
Protective Measures	Fresh air ventilation must be ensured, when working (welding) in closed rooms. Local safety regulations must be observed.
Transportation Class	The product is not classified as hazardous good for transport.
Disposal	The material is recyclable. Disposal must be according to local regulations. Please contact your local Sika sales organisation for more information.

Legal note: 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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