BUILDING TRUST

PRODUCT DATA SHEET

Sarnavap®-1000 E

Vapour control layer

PRODUCT DESCRIPTION

Sarnavap®-1000 E is an unsupported vapour control layer based on PE-LD (Low Density Polyethylene).

USES

- Vapour control layer (VCL) is applied over most common substrates. Substrates should be smooth, dry and strong enough to support foot traffic.
- Sarnavap®-1000 E vapour control layer is used for flat and nominal pitch roofs.
- Not suitable for temporary waterproofing.

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.

APPROVALS / STANDARDS

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

PRODUCT INFORMATION

Product Declaration		EN 13984
Chemical Base	Low density polyethylene (PE-LD) foil.	
Packaging	Packing unit:	see price list
	Roll length:	25.00 m
	Roll width:	5.00 m
	Roll weight:	24.375 kg
Shelf Life	The product does not expire during correct 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.	
Appearance / Colour	Surface:	smooth, PE-LD foil with Sarnavap® printed on it.
	Colour:	light blue

Visible Defects	Pass	EN 1850-2
Length	25.00 m (± 2 %)	EN 1848-2
Width	5.00 m (± 1 %)	EN 1848-2
Effective Thickness	0.20 mm (± 20 %)	EN 1849-2
Straightness	Pass	EN 1848-2
Mass per unit area	195 g/m² (± 15 %)	EN 1849-2

SYSTEM INFORMATION

System Structure	Ancillary, complementary products: ▪ Sarnavap® Tape F (for sealing overlap airtight)
Compatibility	Not applicable for permanent exposure to UV irradiation.

TECHNICAL INFORMATION

Resistance to Impact	≤ 100 mm		EN 12691
Tensile Strength	longitudinal	≥ 170 N/50 mm	EN 12311-2
	transversal	≥ 170 N/50 mm	
Elongation	longitudinal	≥ 500 %	EN 12311-2
	transversal	≥ 500 %	
Tear Strength	longitudinal	≥ 120 N	EN 12310-1
	transversal	≥ 100 N	
Joint Shear Resistance	≥ 60 N/50 mm		EN 12317-2
Water Tightness	Pass		EN 1928
Water Vapour Transimission	220 m (± 30 m)		EN 1931
Artificial Ageing	Pass		EN 1296/EN 1931
Reaction to Fire	Class E		EN ISO 11925-2: 2002, classification to EN 13501-1

APPLICATION INFORMATION

Ambient Air Temperature	Ambient temperature: -20 °C min. / +60 °C max.
Substrate Temperature	Substrate temperature: -30 °C min. / +60 °C max.

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.

LIMITATIONS

The use of Sarnavap®-1000 E 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.

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).
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.

APPLICATION INSTRUCTIONS

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 Sarnavap®-1000 E.

APPLICATION METHOD / TOOLS

According to the valid installation instructions Sarnavap®-1000 E can be installed loose laid over any smooth surface with all side and end laps overlapped a minimum 80 mm and sealed with Sarnavap® Tape F (jointing tape). At parapets and upstands the Sarnavap®-1000 E must be carried up to the upper edge of the thermal insulation and sealed to the upstand/penetration with Sarnavap® Tape F tape to form an airtight seal. Before the application of Sarnavap®-1000 E, the substrate must be checked. Sarnavap®-1000 E should be laid on substrate surfaces that are smooth, dry, clean and strong enough to support foot traffic.

Sarnavap®-1000 E is loose laid. It is light, so it must be covered (ballasted) immediately with the next layer of the roof build-up. If Sarnavap®-1000 E 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 Sarnavap® Tape F. Standard construction practice requires that the vapour control layer at base flashing extend to the top of the roof insulation and be attached to the vertical construction.

APPLICATION

1. Unroll the Sarnavap®-1000 E over the structural deck and temporarily weight in position.
2. Unroll the next roll of Sarnavap®-1000 E positioning so as to ensure a minimum 80 mm overlap.
3. Fold back the top sheet of Sarnavap®-1000 E and apply Sarnavap® Tape F (jointing tape) to the bottom sheet.
4. Peel off release tape and carefully fold back the top sheet of Sarnavap®-1000 E ensuring no wrinkles or creases are formed.
5. Apply pressure to the top sheet of Sarnavap®-1000 E with a welding roller ensuring good adhesion to the Sarnavap® 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°.

Installation works shall be performed only by Registered Sika Sarnafil Roofing Contractors.
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:
Sarnavap®-1000 E is not suitable as temporary or permanent waterproofing. It is not designed as roofing membrane and therefore can not replace the waterproofing membrane.

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.

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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