

PRODUCT DATA SHEET

Sarnavap[®]-2000 E

PE VAPOUR CONTROL LAYER



DESCRIPTION

Sarnavap[®]-2000 E is an unsupported vapour control layer based on Polyethylene (PE).

USES

- Vapour control layer for flat roofs

CHARACTERISTICS / ADVANTAGES

- Ease and speed of installation
- Stays flexible at low temperatures
- Constant vapour diffusion resistance

APPROVALS / CERTIFICATES

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

PRODUCT INFORMATION

Composition	Low Density Polyethylene (PE-LD) foil / High Density Polyethylene (PE-HD) foil.	
Packaging	Roll length:	25,00 m
	Roll width:	4,00 m
	Roll weight:	23,00 kg
Appearance / Colour	Surface:	Smooth, PE-LD/HD foil
	Colour:	Green
Shelf life	5 years from date of production	
Storage conditions	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at 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 packaging.	
Product Declaration	EN 13984	
Visible Defects	Pass	(EN 1850-2)
Length	25,00 m (± 2 %)	(EN 1848-2)
Width	4,00 m (± 1 %)	(EN 1848-2)
Effective Thickness	0,23 mm (± 10 %)	(EN 1849-2)
Straightness	Pass	(EN 1848-2)

TECHNICAL INFORMATION

Resistance to Impact	≤ 100 mm	(EN 12691)
Tensile Strength	longitudinal	≥ 260 N/50 mm (EN 12311-2)
	transversal	≥ 260 N/50 mm
Elongation	longitudinal	≥ 600 % (EN 12311-2)
	transversal	≥ 600 %
Tear Strength	longitudinal	≥ 180 N (EN 12310-1)
	transversal	≥ 180 N
Reaction to Fire	Class E	(EN ISO 11925-2:2002) (classification to EN 13501-1)
Resistance to UV Exposure	Not applicable for permanent exposure to UV irradiation.	
Artificial Ageing	Pass	(EN 1296 / EN 1931)
Water Vapour Transmission	≥ 300 m	(EN 1931)
Watertightness	Pass	(EN 1928)

SYSTEMS

System Structure	The following products must be considered for use depending on roof design: <ul style="list-style-type: none"> ▪ Sarnavap® Tape F (for airtight sealing of overlaps) ▪ Sarnatape® 20 (for airtight sealing of parapets, upstands, perimeters, penetrations, flashings) ▪ Primer 130
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APPLICATION INFORMATION

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

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

Substrates shall be smooth, dry and strong enough to support foot traffic.

SUBSTRATE PREPARATION

If substrate surfaces are rough (e.g. concrete or screed topping), install a levelling layer on top of substrate and underneath Sarnavap®-2000 E.

APPLICATION

1. Unroll the Sarnavap®-2000 E over the structural deck and temporarily weight in position.
2. Unroll the next roll of Sarnavap®-2000 E positioning so as to ensure a minimum 80 mm overlap.
3. Fold back the top sheet of Sarnavap®-2000 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®-2000 E ensuring no wrinkles or creases are formed.

5. Apply pressure to the top sheet of Sarnavap®-2000 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°.
7. At perimeters and penetrations seal the Sarnavap®-2000 E by turning up and sealing to a suitable smooth surfaced abutment with Sarnatape® 20. For sealing flashing airtight, porous substrates must first be treated with Primer 130.

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

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®-2000 E is not suitable as permanent water-

proofing. It is not designed as roofing membrane and therefore can not replace the waterproofing membrane.

APPLICATION METHOD / TOOLS

Installation procedure: Reference must be made to further documentation where applicable, such as relevant method statement, application manual and installation or working instructions.

Fixing method - General: Sarnavap®-2000 E is loose laid. It is light, so it must be covered immediately with the next layer of the roof build-up to avoid being removed by wind forces. If the vapour control layer is installed on a vertical surface the upper edge must be mechanically fixed (except at common base flashing height). Sarnavap®-2000 E must be bonded airtight with Sarnatape® 20 to the warm side of the vertical construction.

Installation - General

1. Unroll the Sarnavap®-2000 E over the structural deck and temporarily weight in position.
2. Unroll the next roll of Sarnavap®-2000 E positioning to ensure a minimum 80 mm overlap with previous roll.
3. Fold back the top sheet of Sarnavap®-2000 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®-2000 E ensuring no wrinkles or creases are formed.
5. Apply pressure to the top sheet of Sarnavap®-2000 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.

Overlaps: Contact surfaces of seams must be clean and dry for bonding. Adjoining sheets must overlap 80 mm. Seams are to be sealed tightly with Sarnavap® Tape F.

Priming: When using Sarnatape® 20 jointing tape to form an airtight seal. Treat porous substrates with Primer 130 along tape bonding line.

Transverse joints: An airtight bond is achieved by trimming the edge of the upper sheet at 45°.

Parapets and upstands: Sarnavap®-2000 E must be carried up to the upper edge of the thermal insulation and sealed to the parapet / upstand / with Sarnatape® 20 jointing tape to form an airtight seal. If surface is rough, a layer of Sarnafil® Type T Felt must be used as a cushion layer.

Perimeters and penetrations: Seal Sarnavap®-2000 E by turning up and sealing to a suitable smooth surfaced abutment with Sarnatape® 20. **Flashings:** Seal with Sarnatape® 20.

Roof insulation: Standard construction practice requires that the vapour control layer at base flashing to extend to the top of the roof insulation and attached to the vertical construction.

IMPORTANT CONSIDERATIONS

Installation work must only be carried out by Sika® trained and approved contractors, experienced in this type of application.

- Sarnavap®-2000 E is not suitable as permanent waterproofing. It is not designed as a roofing membrane and therefore cannot replace the waterproofing membrane.
- The use of Sarnavap®-2000 E membrane is limited to geographical locations with average monthly minimum temperatures of -50 °C. Permanent ambient temperature during use is limited to +50 °C.
- The use of some ancillary products such as contact tapes and primer is limited to temperatures above +5 °C. Observe temperature limitations in the appropriate Product Data Sheets.
- Special measures may be compulsory for installation below +5 °C ambient temperature due to safety requirements in accordance with national regulations.

BASIS OF PRODUCT DATA

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

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).

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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