

BUILDING TRUST

PRODUCT DATA SHEET Sarnafil[®] MTS

FPO UNDERLAY MEMBRANE FOR PITCHED ROOFS

DESCRIPTION

Sarnafil[®] MTS is a flexible polyolefin (FPO), vapour-permeable, watertight, hot air weldable, underlay roofing membrane.

USES

- Roofing construction with insulation between or over rafters
- Roofs that meet or exceed the minimum allowable pitch (at least ≥ 5°)
- Roofs with large areas and complex geometry
- Laying over rafters with no intermediate support
- Roofs pitches ≥ 5°

CHARACTERISTICS / ADVANTAGES

- Hot air weldable
- Vapour-permeable
- Watertight.
- Wind resistant
- Non-slip surface

APPROVALS / CERTIFICATES

 CE Marking and Declaration of Performance to EN 13859-1 - Flexible sheets - For underlays for discontinuous roofs

Composition	Polyolefin (FPO)		
Packaging	Sarnafil [®] MTS rolls are wrapped individually in a blue PE-foil.		
	Packing unit:	33 rolls/pallet	
	Roll weight:	20 kg	
	Pallet weight:	693 kg (incl. pallet)	
Appearance / Colour	Surface:	Non-slip	
	Colours:		
	Top surface:	Green	
	Bottom surface:	White	
Shelf life	5 years from date of production		
Storage conditions	Product must be stored in original unopened and undamaged sealed pack- aging in dry conditions and temperatures between +5 °C and +30 °C. Store in a horizontal position. Do not stack pallets of the rolls on top of each oth- er, or under pallets of any other materials during transport or storage. Al- ways refer to packaging.		
Product Declaration	EN 13859-1 - Flexible sheets - For underlays for discontinuous roofs		
Length	25,00 m / 250,00 m (EN 184		

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PRODUCT INFORMATION

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TECHNICAL INFORMATION Tensile Strength longitudinal (md) ¹⁾ transversal (cmd) ²⁾ ³⁾ md = machine direction ¹⁾ md = m	(EN 1848-2) (EN 1849-2)		
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Water Vapour Transmission 1,0 (± 0,5) m	at pitch ≤ 12°		
	(EN 1931)		
Resistance to Water Penetration W1 (EN	1928: 2001)		
Service Temperature -30 °C min. / +70 °C max.			



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SYSTEMS

System Structure

System Structure	 Arnafil® MTD universal pipe connector, prefabricated pieces for corner flashings Sarnafil® MTD universal pipe connector, prefabricated pieces for corner flashings Sarnafil® MTD universal pipe connector, prefabricated pieces for corner flashings Sarnafil® MTD universal pipe connector, prefabricated pieces for corner flashings Sarnafil® MTD universal pipe connector, prefabricated pieces for corner flashings Sarnafil® MTD universal corner flashing, prefabricated pieces for corner flashings Sarnafil® MTD universal pipe connector? Sarnafil® MTD universal pipe connector? Sarnafil® MTD universal corner flashing, for welded eave termination Sarnafil® T- membrane-clad metal flashing, for welded eave termination Sarnafil® T- 660, contact adhesive Solvent T-660, cleaner and thinner Sarnacol® T-660, grease of metal surfaces Sarnatape® adhesive tape for seam as well as flashings and terminations Insulation As required by national or local regulations Sarnavap® vapour barrier 	
	 3. Sarnavap[®] vapour barrier Sarnavap[®] duplex Sarnavap[®]-1000 R / -1000 E Sarnavap[®] adhesive tapes / Sarnavap[®] Primer-130 	
Compatibility	Not compatible in direct contact with PVC, tar, asphalt, hot bitumen, lime water, wood preservatives with surfactants and substances containing oil, solvents or wetting agents. These materials could adversely affect the product properties.	

APPLICATION INFORMATION

Ambient Air Temperature	Hot air welded	-20 °C min. / +60 °C max.
	Adhesive bonded	+5 °C min. / +40 °C max.

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APPLICATION INSTRUCTIONS

EQUIPMENT

Hot welding overlap seams

Electric hot air welding equipment, such as hand held manual hot air welding equipment and pressure rollers or automatic hot air welding machines with controlled hot air temperature capability of a minimum 600 °C. Recommended type of equipment:

- Manual: Leister Triac
- Automatic : Sarnamatic 681
- Semi-automatic: Leister Triac Drive
- Or other suitable equipment.

SUBSTRATE QUALITY

The rafter substrate must be flat and free of any sharp protrusion, clean, dry and free of grease, bitumen, oil and dust. Any protective treatments applied to the substrate must be dry before installing Sarnafil[®] MTS.

APPLICATION

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

The membrane is installed by loose laying. Overlap seams are hot welded using specialised hot air equipment.

Hot welding method

Overlap seams must be welded by electric hot welding equipment. Welding parameters including temperature, machine speed, air flow, pressure and machine settings must be evaluated, adapted and checked on site according to the type of equipment and the climatic conditions prior to welding.

Testing overlap seams

The seams must be mechanically tested with screw driver or steel needle to ensure the integrity/completion of the weld. Any imperfections must be rectified by hot air welding.

FURTHER INFORMATION

Installation instructions • Sarnafil[®] MTS

IMPORTANT CONSIDERATIONS

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

- Roof construction and associated components must comply with national and local regulations.
- Ensure Sarnafil[®] MTS is prevented from direct contact with incompatible materials (refer to compatibility section).
- The use of Sarnafil[®] MTS membrane is limited to geographical locations with average monthly minimum temperatures of -30 °C. Permanent ambient temperature during use is limited to +70 °C.
- The use of some ancillary products such as adhesives, cleaners and solvents 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.
- Remove ponding water.
- Remove snow layers.

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.

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ECOLOGY, HEALTH AND SAFETY

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.

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 sheed 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 enduse 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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