

## PRODUCT DATA SHEET

## Sarnafil® TS 77-25

Polymeric membrane for mechanically fastened roof waterproofing

## DESCRIPTION

Sarnafil® TS 77-25 (thickness 2.5 mm) is a polyester reinforced, multi-layer, synthetic roof waterproofing sheet based on flexible polyolefins (FPO) containing ultravioletlight stabilizers, flame retardant and an inlay of glass non-woven.

Sarnafil® TS 77-25 is a hot air weldable roof membrane formulated for direct exposure and designed to use in all global climatic conditions. Sarnafil® TS 77-25 is produced with an inlay of glass non-woven for dimensional stability and a polyester reinforcement for high strength.

(DE/E1 FPO-BV-V-PG-GV-2.5)

## USES

Waterproofing membrane for mechanically fastened roofing systems.

## FEATURES

- Proven performance over decades
- Resistant to permanent UV exposure
- Resistance to hail
- High dimensional stability due to glass fleece inlay
- Resistant to permanent wind exposure
- Resistant to all common environmental influences
- Resistant to micro-organisms
- Resistant to root penetration
- Compatible to old bitumen

## CERTIFICATES AND TEST REPORTS

- Polymeric sheets for roof waterproofing according to DIN EN 13956, certified by notified body 1213-CPD-3915 and provided with the CE-marking
- DIN SPEC 20000-201
- DIN 18531-2
- Reaction to fire according to DIN EN 13501-1: Class E
- External fire performance tested according to DIN CEN/TS 1187 and classified according to DIN EN 13501-5: BROOF(t1)
- Resistance to flying sparks and radiant heat according to DIN 4102-7 (tested roof structure of Sika)

## PRODUCT INFORMATION

Composition	Flexible polyolefins (FPO)		
Packaging	Rolls are wrapped individually in a blue PE-foil. Packaging unit and other roll sizes: see current price and product range overview.		
	Roll length:	10 m	20 m
	Roll width:	2 m	0.2 m
	Roll weight:	55 kg	11 kg

Appearance and colour	Surface:	beige window grey (nearest RAL 7040) further colours on request
	Back side:	black
Shelf life	In unopened and undamaged original packaging, the product retains its properties.	
Storage conditions	Product must be stored in original unopened and undamaged sealed packaging 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 other, or under pallets of any other materials during transport or storage. Always refer to packaging.	
Product declaration	(DIN EN 13956 / DIN SPEC 20000-201)	
Visible defects	pass	(DIN EN 1850-2)
Length	10 / 20 (-0 / +5 %) m	(DIN EN 1848-2)
Width	2 / 0.2 (-0.5 / +1 %) m	(DIN EN 1848-2)
Effective thickness	2.5 mm (-5 / +10 %)	(DIN EN 1849-2)
Straightness	≤ 30 mm	(DIN EN 1848-2)
Flatness	≤ 10 mm	(DIN EN 1848-2)
Mass per area	2.71 kg/m <sup>2</sup> (-5 / +10 %)	(DIN EN 1849-2)

## TECHNICAL INFORMATION

Hail resistance	rigid substrate	≥ 32 m/s	(DIN EN 13583)
	flexible substrate	≥ 45 m/s	
Resistance to static loading	rigid substrate	≥ 20 kg (method A)	(DIN EN 12730)
	flexible substrate	≥ 20 kg (method B)	
Resistance to static puncture	hard substrate	≥ 1500 mm (method A)	(DIN EN 12691)
	soft substrate	≥ 2000 mm (method B)	
Resistance to root penetration	pass		(DIN EN 13948)
Tensile strength	longitudinal (md)*	≥ 1100 N/50 mm	(DIN EN 12311-2)
	transversal (cmd)*	≥ 1000 N/50 mm	
*md = machine direction *cmd = cross machine direction			
Elongation	longitudinal (md)*	≥ 13 %	(DIN EN 12311-2)
	transversal (cmd)*	≥ 13 %	
*md = machine direction *cmd = cross machine direction			
Linear dimensional change	longitudinal (md)*	≤ 0.2 %	(DIN EN 1107-2)
	transversal (cmd)*	≤ 0.1 %	
*md = machine direction *cmd = cross machine direction			
Tear strength	longitudinal (md)*	≥ 300 N	(DIN EN 12310-2)
	transversal (cmd)*	≥ 300 N	
*md = machine direction *cmd = cross machine direction			
Joint peel resistance	≥ 300 N/50 mm		(DIN EN 12316-2)

Joint shear resistance	≥ 500 N/50 mm tear off outside the joint seam	(DIN EN 12317-2) (DIN SPEC 20000-201/ DIN EN 12317-2)
Foldability at low temperature	≤ -40 °C	(DIN EN 495-5)
External fire performance	Class E	(DIN ISO 11925-2) (classification according DIN EN 13501-1)
Effect of liquid chemicals, including water	on request	(DIN EN 1847)
Exposure to bitumen	Pass Method (b)	(DIN EN 1548) (DIN SPEC 20000-201) (DIN EN 1548)
Retention of properties after heat ageing	BROOF (t1) < 20°  Resistance to flying sparks and radiant heat according to DIN 4102-7 (tested roof structure of Sika) Fulfilled for roof pitch < 20°	(DIN CEN/TS 1187) (DIN EN 13501-5)  (DIN CEN/TS 1187) (DIN 4102-7)
Resistance to UV exposure	Pass (> 5.000 h) Grade 0	(DIN EN 1297) (DIN SPEC 20000-201) (DIN EN 1297)
Water-vapour transmission rate	μ= 150.000 (±30 %)	(DIN EN 1931)
Watertightness	Pass 400 kPa/ 72 h	(DIN EN 1928) (DIN SPEC 20000-201 / DIN EN 1928)

## APPLICATION INFORMATION

Ambient air temperature	-20 °C min. / +60 °C max.
Substrate temperature	-30 °C min. / +60 °C max.

## SYSTEM INFORMATION

System structure	For the Sarnafil® flat roof waterproofing system a wide range of accessories is available: Sarnafil® AT-18 FSA P (selfadhered membrane for parapets) Sarnafil® T 66-15 D (membrane for detailing) Sarnafil® TS 77 stripes Sarnafil® metal sheets Sarnabar® fastening system Sarnafil® prefabricated parts Sarnafil® T Clean/Sarnafil® T Prep/Sarnafil® Wet task set Sika® Speed Clean Sarnacol® T 660 Sarnafil® drains and scuppers
Compatibility	Sarnafil® TS 77-25 may be installed on all thermal insulations and levelling layers suitable for roofing. No additional separation layer is required. Sarnafil® TS 77-25 is suitable for installation directly on top of existing, carefully cleaned, levelled bituminous roofing, e.g. re-roofing over old flat roofs. Colour changes in membrane surface may occur if in direct contact with bitumen.

## BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## ECOLOGY, HEALTH AND SAFETY

### REGULATION (EC) NO 1907/2006 - REACH

This product is an article as defined in article 3 of regu-

lation (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).

## APPLICATION INSTRUCTIONS

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

### APPLICATION METHOD / TOOLS

The seams of the roofing membranes are joined using a hot air welding process. The welding process is carried out using automatic welding machines or hand-held welding devices. The welding temperature depends on a number of factors, such as the ambient temperature, weather conditions and welding speed. Information on the basic settings for hot air welding devices can be found in the currently valid installation instructions, which you can request from us.

## 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.

## 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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