

PRODUCT DATA SHEET

Sarnafil® TS 77-15

Polymeric FPO membrane for mechanically fastened roof waterproofing

DESCRIPTION

Sarnafil® TS 77-15 (thickness 1,5 mm) is a polyester reinforced, multi-layer, polymeric roof waterproofing membrane based on flexible polyolefins (FPO) with an inlay of glass non-woven according to EN 13956. Sarnafil® TS 77-15 is a hot air weldable roof membrane formulated for direct exposure. Sarnafil® TS 77-15 is produced with an inlay of glass non-woven for dimensional stability and a polyester reinforcement. (DE/E1 FPO-BV-V-PG-GV-1,5)

USES

Waterproofing membrane for mechanically fastened roofing system, also under gravel and green roof.

FEATURES

- Proven performance over decades
- Resistant to hail
- Resistant to mechanical impact
- Resistant to root penetration
- Compatible to old bitumen

CERTIFICATES AND TEST REPORTS

- Polymeric membrane for roof waterproofing according to DIN EN 13956, recognized by the certified body 1213-CPD-3915 and provided with the CE-mark
- DIN SPEC 20000-201
- DIN 18531-2
- Behaviour when exposed to fire exposure according to DIN EN 13501-1: Class E
- Approved against external fire exposure according to DIN EN 1187 and classified according to DIN EN 13501-5: B_{ROOF}(t1)
- Resistance to flying sparks and radiant heat according to DIN 4102/part 7

PRODUCT INFORMATION

Product declaration

(DIN EN 13956 / DIN SPEC 20000-201)

Packaging

Rolls are individually wrapped in blue PE-foil.

For packaging units and other cut-to-size sheets: see current price and product range overview.

Roll length:	20 m	40 m	50 m
Roll width:	2 m	1 m	0,2 m
Roll weight:	66 kg	66 kg	16,5 kg

Shelf life

The product retains its properties if stored properly.

Storage conditions

Store the rolls horizontally in unopened and undamaged original packaging between +5 °C and +30 °C on pallets. Protect from direct sunlight, rain and snow. Do not stack pallets during transportation or storage.

Appearance and colour	Top surface:	beige window grey (nearest RAL 7040) Other colours: see current price and product range overview
	Bottom surface:	black
Visible defects	pass	(DIN EN 1850-2)
Length	20 / 40 / 50 (-0 / +5 %) m	(DIN EN 1848-2)
Width	2 / 1 / 0,2 (-0,5 / +1 %) m	(DIN EN 1848-2)
Effective thickness	1,5 (-5 / +10 %) mm	(DIN EN 1849-2)
Straightness	≤ 30 mm	(DIN EN 1848-2)
Flatness	≤ 10 mm	(DIN EN 1848-2)
Mass per area	1,56 kg/m ² (-5 / +10 %)	(DIN EN 1849-2)

TECHNICAL INFORMATION

Hail resistance	rigid substrate	≥ 20 m/s	(DIN EN 13583)
	flexible substrate	≥ 30 m/s	
Resistance to static loading	soft substrate	≥ 20 kg (method A)	(DIN EN 12730)
	rigid substrate	≥ 20 kg (method B)	
Resistance to static puncture	rigid substrate	≥ 700 mm (method A)	(DIN EN 12691)
	flexible substrate	≥ 900 mm (method B)	
Resistance to root penetration	pass		(DIN EN 13948)

Tensile strength	longitudinal (md)*	≥ 1000 N/50 mm	(DIN EN 12311-2)
	transversal (cmd)*	≥ 900 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			
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		(DIN EN 12317-2)
	Tear-off outside the joint seam		(DIN SPEC 20000-201 / DIN EN 12317-2)
Linear dimensional change	longitudinal (md)*	≤ 0,2 %	(DIN EN 1107-2)
	transversal (cmd)*	≤ 0,1 %	
*md = machine direction *cmd = cross machine direction			
Foldability at low temperature	≤ -35 °C		(DIN EN 495-5)
Watertightness	pass		(DIN EN 1928)
	400 kPa/ 72 h		(DIN SPEC 20000-201 / DIN EN 1928)
Water-vapour transmission rate	μ = 150.000 (±30 %)		(DIN EN 1931)
Exposure to bitumen	pass		(DIN EN 1548)
	method (b)		(DIN SPEC 20000-201) (DIN EN 1548)
Effect of liquid chemicals, including water	on request		(DIN EN 1928)
Resistance to UV exposure	pass (> 5000 h)		(DIN EN 1297)
	Class 0		(DIN SPEC 20000-201) (DIN EN 1297)
Retention of properties after heat ageing	B _{ROOF} (t1) < 20°		(DIN CEN/TS 1187) (DIN EN 13501-5)
	Resistance to flying sparks and radiant heat (for roof build-ups tested by Sika) Fulfilled for roof slope < 20°		(DIN CEN/TS 1187) (DIN 4102-7)
External fire performance	Class E		(DIN ISO 11925-2) (Classification according to DIN EN 13501-1)

APPLICATION INFORMATION

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

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

SYSTEM INFORMATION

System structure

The following system accessories are available for the Sarnafil® flat roof waterproofing system:

Sarnafil® AT-18 FSA P (self-adhered detailing membrane)

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

Sika® Speed Clean cleaning accessories

Sarnacol® T 660 (adhesive)

Sarnafil® roof drains

Compatibility

Sarnafil® TS 77-15 can be laid on all standard thermal insulation materials and leveling layers. An additional separating layer is not required. A fire protection layer may be necessary.

Sarnafil® TS 77-15 is suitable for laying on existing, sufficiently cleaned and leveled bitumen waterproofing, e.g. renovation of old flat roofs. Colour changes to the surface are possible when 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 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).

APPLICATION INSTRUCTIONS

The installation of the roof waterproofing should be carried out by Sika® Roofing trained installers.

APPLICATION METHOD / TOOLS

The seams of the roofing membranes are joined using the hot air welding process. The welding process is carried out using automatic welding machines or manual welding equipment. The welding temperature depends on several factors, such as the ambient temperature, the weather conditions and the welding speed.

Information on the basic setting of hot-air welding equipment can be found in the currently valid installa-

tion 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.

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Sarnafil® TS 77-15

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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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