BUILDING TRUST

PRODUCT DATA SHEET

Sarnafil® TG 66-18

Polymeric Membrane for ballasted roof waterproofing

DESCRIPTION

Sarnafil® TG 66-18 (thickness 1,8 mm) is a multi-layer, synthetic roof waterproofing sheet based on premium-quality flexible polyolefins (FPO), with inlay of glass non-woven according to EN 13956. Sarnafil® TG 66-18 is a hot air weldable, UV-resistant roof membrane, designed for use under ballast.
(DE/E1 FPO-BV-E-GV-1,8)

USES

The Product is used as a waterproofing membrane in the following roofing applications:
- Loose-laid, ballasted roofs with ballast materials such as gravel or concrete slabs
- Intensive green roofs
- Extensive green roofs
- Utility roofs
- Inverted roofs

The Product is used as a waterproof membrane for the following exposed roof junction zones in installations of all types of the Sarnafil® TS 77, Sarnafil® TG 66, Sarnafil® TG 76 Felt and Sarnafil® TG 76 FSA.

FEATURES

- Proven performance over decades
- High dimensional stability
- Very good resistance to impact load and hail
- Very good resistance to root penetration
- Compatible with old bitumen

CERTIFICATES AND TEST REPORTS

- CE marking and declaration of performance based on EN 13956, approved by certification body 1213-CPD-3914
- DIN SPEC 20000-201
- DIN 18531-2
- Classification of fire resistance EN 13501--1: Class E

PRODUCT INFORMATION

Product declaration	(DIN EN 13956 / DIN SPEC 20000-201)	
Packaging	Standard rolls are wrapped individually in a blue PE-foil.	
	Packing unit	Refer to price list
	Roll length	15 m
	Roll width	2 m
	Roll weight	54 kg
	Refer to the current price list for available packaging variations.	
Shelf life	In unopened and undamaged original packaging the product keeps its properties.	

Storage conditions	The Product must be stored in original unopened and undamaged sealed packaging in dry conditions and temperatures between +5 °C and +35 °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.		
Appearance and colour	Top surface	beige grey (nearest RAL 7040) others colours refer to the current pricelist	
	Bottom Surface	black	
Visible defects	pass		(DIN EN 1850-2)
Length	15 (-0 / +5 %) m		(DIN EN 1848-2)
Width	2 (- 0,5 / + 1 %) m		(DIN EN 1848-2)
Effective thickness	1,8 (-5 / +10 %) mm		(DIN EN 1849-2)
Straightness	≤ 30 mm		(DIN EN 1848-2)
Flatness	≤ 10 mm		(DIN EN 1848-2)
Mass per area	1,8 (-5/ + 10 %) kg/m²		(DIN EN 1849-2)

SYSTEM INFORMATION

System structure	System accessories: ▪ Sarnafil® T 66-15 D sheet for detailing ▪ Sarnafil® TG 66 stripes ▪ Sarnafil® metal sheets ▪ Sarnabar® fastening system ▪ Sarnafil® prefabricated parts ▪ Sarnafil® T Clean / Sarnafil® T Prep / Sarnafil® seam preparation / Sarnafil® Wet Task-Set ▪ Sarnacol® T 660 adhesive ▪ Sarnafil® drain products
Compatibility	Sarnafil® TG 66-18 is compatible with the following substrates: ▪ All thermal insulation types and levelling layers suitable for roofing. No additional separation layer is required. ▪ Existing bituminous roofing that is clean and leveled, for example re-roofing over old flat roofs. Discolouration of the membrane surface may occur if in direct contact with bitumen.

TECHNICAL INFORMATION

Resistance to static loading	soft substrate	≥ 20 kg (method A)	(DIN EN 12730)
	rigid substrate	≥ 20 kg (method B)	
Resistance to static puncture	hard substrate	≥ 1000 mm (method A)	(DIN EN 12691)
	soft substrate	≥ 1250 mm (method B)	
Resistance to root penetration	pass		(DIN EN 13948)
Tensile strength	longitudinal (md)*	≥ 9 N/mm²	(DIN EN 12311-2)
	transversal (cmd)*	≥ 7 N/mm²	
	*md = machine direction *cmd = cross machine direction		
Tensile strain at break	longitudinal (md)*	≥ 550 %	(DIN EN 12311-2)
	transversal (cmd)*	≥ 550 %	
	*md = machine direction *cmd = cross machine direction		

Joint shear resistance	≥ 500 N/50 mm tear-off outside joint seam	(DIN EN 12317-2) (DIN SPEC 20000-201 / DIN EN 12317-2)
Linear dimensional change	longitudinal (md)* ≤ 0,2 % transversal (cmd)* ≤ 0,1 % *md = machine direection *cmd = cross machine direction	(DIN EN 1107-2)
Foldability at low temperature	≤ -45 °C	(DIN EN 495-5)
Watertightness	pass 400 kPa/ 72 h	(DIN EN 1928) (DIN SPEC 20000-201 / DIN EN 1928)
Water-vapour transmission rate	μ= 150.000 (± 30%)	(DIN EN 1931)
Exposure to bitumen	pass procedure (b)	(DIN EN 1548) (DIN SPEC 20000-201) (DIN EN 1548)
Effect of liquid chemicals, including water	on request	(DIN EN 1847)
Resistance to UV exposure	pass (> 5.000 h) Class 0	(DIN EN 1297) (DIN SPEC 20000-201) (DIN EN 1297)
External fire performance	Class E	(EN ISO 11925-2) Classification according DIN EN 13501-1

APPLICATION INFORMATION

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

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 membrane should be carried out by Sika® Roofing trained applicators.

APPLICATION METHOD / TOOLS

The seams of the roofing membranes are joined using hot air welding process. The welding process is carried out using automatic welding machines or manual welding equipment. The welding temperature depends on a number of 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 installation instructions, which you can be requested 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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