

# PRODUCT DATA SHEET

## Sarnafil® TG 66-15

Polymeric membrane for ballasted roof waterproofing

### DESCRIPTION

Sarnafil® TG 66-15 (thickness 1.5 mm) is a multi-layer polymeric waterproofing membrane, weldable by hot air, with internal reinforcement of glass fleece, based on high-quality flexible polyolefins (FPO). The special structure of Sarnafil® TG 66-15 is designed for flat roofs, loosely laid and ballasted.  
(DE/E1 FPO-BV-E-GV-1,5)

### USES

Roof waterproofing membrane for:

- loose laid and ballasted (e. g. gravel, concrete slabs, green roofs, inverted roofs)
- Detailing membrane for Sarnafil® AT, TS 77, TG 66, TG 76 Felt PS and TG 76 FSA

### FEATURES

- Proven performance over decades
- High dimensional stability
- Resistant to mechanical influences
- Resistant to root penetration
- Compatible with old bitumen

### CERTIFICATES AND TEST REPORTS

- Polymeric waterproofing membrane according to DIN EN 13956, recognized by the certification body 1213-CPD-3914 and provided with the CE-mark
- DIN SPEC 20000-201
- DIN 18531-2
- Behavior in case of fire according to DIN EN 13501-1: Class E

### PRODUCT INFORMATION

<b>Product declaration</b>	(DIN EN 13956 / DIN SPEC 2000-201)	
<b>Packaging</b>	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
	Roll width:	2 m
	Roll weight:	60 kg
<b>Shelf life</b>	The product retains its properties in unopened and undamaged original packaging.	
<b>Storage conditions</b>	Store rolls in a horizontal position on pallets. Protect from direct sunlight, rain and snow. Do not stack pallets during transportation or storage.	
<b>Appearance and colour</b>	Top surface:	beige window grey (nearest RAL 7040) Further colour options: see current price and product range overview
	Bottom surface:	black
<b>Visible defects</b>	pass	(DIN EN 1850-2)

Length	20 (-0 / +5 %) m	(DIN EN 1848-2)
Width	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	1,5 (-5 / +10 %) kg/m <sup>2</sup>	(DIN EN 1849-2)

## TECHNICAL INFORMATION

Resistance to static loading	rigid substrate	≥ 20 kg (method A)	(DIN EN 12730)
	soft substrate	≥ 20 kg (method B)	
Resistance to static puncture	hard substrate	≥ 800 mm (method A)	(DIN EN 12691)
	soft substrate	≥ 1000 mm (method B)	
Resistance to root penetration	pass		(DIN EN 13948)
Tensile strength	longitudinal (md)*	≥ 9 N/mm <sup>2</sup>	(DIN EN 12311-2) method B
	transversal (cmd)*	≥ 7 N/mm <sup>2</sup>	
*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		(DIN EN 12317-2)
	Tear-off outside 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	≤ -45°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 1847)
Resistance to UV exposure	pass (> 5000 h)		(DIN EN 1297)
	Class 0		(DIN SPEC 20000-201) (DIN EN 1297)
External fire performance	Class E		(EN 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

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## System structure

### System accessories:

- Sarnafil® T 66-15 D (sheets for detailing)
- Sarnafil® TG 66 stripes
- Sarnafil® metal sheets
- Sarnabar® fastening system
- Sarnafil® prefabricated parts
- Sarnafil® T Clean / Sarnafil® T Prep / Sarnafil® Wet Task-Set
- Sarnacol® T 660 (adhesive)
- Sarnafil® roof drains

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## Compatibility

Sarnafil® TG 66-15 can be laid on all standard thermal insulation materials and leveling layers. An additional separating layer is not required. Sarnafil® TG 66-15 is suitable for laying directly 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.

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## BASIS OF PRODUCT DATA

All technical specifications in this data sheet are based on laboratory tests. Actual measured values may deviate due to factors 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 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 request from us.

## LOCAL RESTRICTIONS

Please note that the product may have different performance characteristics from country to country due to specific local regulations. Please refer to the local product data sheet for a detailed description of the areas of application.

## 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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