BUILDING TRUST

PRODUCT DATA SHEET

Sarnafil® TG 76-20 FSA

Polymeric membrane for adhered roof waterproofing

DESCRIPTION

Sarnafil® TG 76-20 FSA (thickness 2 mm) is a multi-layer, self-adhesive roof waterproofing membrane based on flexible polyolefins (FPO) containing stabilizers, with inlay of glass fibre, non-woven reinforcing inlay and polyester fleece backing according to EN 13956. Sarnafil® TG 76-20 FSA is a hot air weldable, UV-resistant roof membrane.
(DE/E1 FPO-BV-V-GV-GG-K-PV-2.0-SK)

USES

Waterproofing self-adhesive membrane for fully bonded exposed flat roofs (also under gravel and green roofs)

FEATURES

- Fast installation
- Instant wind uplift resistance through the self-adhesive backing
- Proven performance over decades
- Resistant to permanent UV exposure
- Resistant against impact load and hail
- Resistant to all common environmental influences
- Resistant to micro-organisms
- Hot air weldable
- Compatible to old bitumen

CERTIFICATES AND TEST REPORTS

- Polymeric sheets for roof waterproofing according to DIN EN 13956, certified by notified body 1213-CPD-3914 and provided with the CE-marking
- DIN/TS 20000-201:2025-02
- 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 (Sika tested roof structures)

PRODUCT INFORMATION

Composition	Flexible polyolefins (FPO)	
Packaging	Standard rolls are wrapped individually in a PE-foil.	
	Roll width	2 m
	Roll length	15 m
	Roll weight	76 kg
	Refer to the current price list for available packaging variations.	

Appearance and colour	Surface	matt	
	Colours:		
	Top surface	beige ~RAL 7040 (window grey)	
	Bottom surface	Polyester fleece backing with self-adhesive layer	
Shelf life	18 months from date of production		
Storage conditions	Store horizontal in original unopened and undamaged original packaging under dry conditions and temperatures between +5 °C and +35 °C. 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	EN 13956 - Polymeric sheets for roof waterproofing		
Visible defects	pass		(EN 1850-2)
Length	15 m (+0.75 m / -0 m)		(EN 1848-2)
Width	2 m (+0.02 m / -0.01 m)		(EN 1848-1)
Effective thickness	2 mm (+0.2 mm / -0.1 mm)		(EN 1849-2)
Straightness	≤ 30 mm		(EN 1848-2)
Flatness	≤ 10 mm		(EN 1848-2)
Mass per unit area	2.5 kg/m² (+0.25 kg/m² / -0.13 kg/m²)		(EN 1849-2)

TECHNICAL INFORMATION

Resistance to impact	Method A, hard substrate	≥ 1000 mm	(EN 12691)
	Method B, soft substrate	≥ 1750 mm	
Hail resistance	Hard substrate	≥ 33 m/s	(EN 13583)
	Soft substrate	≥ 48 m/s	
Resistance to static loading	Hard substrate	≥ 20 kg	(EN 12730)
	Soft substrate	≥ 20 kg	
Dimensional stability	Longitudinal (MD)	≥ 0.2 %	(EN 1107-2)
	Transversal (CMD)	≥ 0.1 %	
Joint peel resistance	Failure mode C, no failure of the joint.		(EN 12316-2)
Joint shear resistance	≥ 300 N/50mm		(EN 12317-2)
Foldability at low temperature	≤ -25 °C		(EN 495-5)
External fire performance	B_{Roof} T1, roof angle > 20°	pass	(EN 13501-5)
	B_{Roof} T1, roof angle < 20°	pass	
Reaction to fire	Class E		(EN 13501-1)
Chemical resistance	Resistant to specific chemicals. Contact Sika Technical Services for additional information.		(EN 1847)
Effect of liquid chemicals, including water	Resistant to many chemicals. Contact Sika Technical Services for additional information.		
Resistance to UV exposure	> 5000 hours UV exposure	Grade 0	(EN 1297)

Diffusion resistance to water vapour	Resistance factor, Method A, tested at +23 °C and 75 % r.h.	μ = 190 000	(EN 1931)
Watertightness	Method B: at 10 kPa	pass	(EN 1928)
Maximum tensile force	Longitudinal (MD)	≥ 500 N/50 mm	(EN 12311-2)
	Transversal (CMD)	≥ 500 N/50 mm	
Elongation at maximum tensile force	Longitudinal (MD)	≥ 2 %	(EN 12311-2)
	Transversal (CMD)	≥ 2 %	

APPLICATION INFORMATION

Ambient air temperature	Maximum	+60 °C
	Minimum	+5 °C
Substrate temperature	Maximum	+60 °C
	Minimum	+5 °C

SYSTEM INFORMATION

System structure

System accessories:
- Sarnavap® 5000 E SA (vapour barrier)
- SikaRoof® Primer 600
- SikaRoof® BoardAdhesive (foam adhesive)
- Sarnafil® AT FSA P (self-adhered membrane for parapets)
- Stainless steel mash for Sika® Roof Control System
- Sika® Speed Clean set
- Sarnafil® T Prep / Sarnafil® T Wet Task set
- Sarnafil® T Clean

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.

LIMITATIONS OF USE

The use of Sarnafil® TG 76-20 FSA is limited to geographical regions with a minimum monthly average temperature of -50°C. The permanent ambient temperature during use is limited to +50°C.

ECOLOGY, HEALTH AND SAFETY

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

EQUIPMENT

The general installation guidelines and processing instructions in the currently valid Sarnafil® installation instruction must be observed, which can be requested from us. Installation should be carried out by Sika-trained applicators.

SUBSTRATE PREPARATION

The substrate surface must be of sufficient structural strength to apply all new and existing layersof the roof build-up and the complete roof system must be desinged and secured against wind uplift loadings. The substrate must be uniform, firm, smooth and freee of any sharp protrusions or burrs, clean, dry, free of grease, oil, dust and loose surface sand/gravel dressing.

APPLICATION

Substrates:
Laminated polyurethane (PU) insulation boards:
No primer for aluminum lamination*,
otherwise SikaRoof® Primer 600

Polystyrene (EPS) insulation boards:
No primer

Fleece-laminated mineral fiber insulation boards:
SikaRoof® Primer 600

Coated mineral fiber insulation boards
(e.g., Bondrock):
SikaRoof® Primer 600

Concrete:
SikaRoof® Primer 600

All closed wood-based substrates,
e.g., OSB, plywood, wood-stacked ceilings:
SikaRoof® Primer 600

Flat sheet metal (min. 0.75 mm):
SikaRoof® Primer 600

Bitumen membranes:
SikaRoof® Primer 600

*When bonding to aluminum-laminated PU insulation boards and sandwich panels, due to manufacturer-specific differences in lamination strength between insulation material and laminate layer, consult Sika Application Technology.

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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