BUILDING TRUST

PRODUCT DATA SHEET

Sarnafil® TG 76-20 E Felt PS

Polymeric FPO membrane for adhered roof waterproofing, roof slope ≥ 20 °

DESCRIPTION

Sarnafil® TG 76-20 E Felt PS (thickness 2 mm) is a multi-layered, hot-air-weldable plastic waterproofing membrane, with internal reinforcement made of glass fleece, based on flexible polyolefins (FPO). The single-ply waterproofing membrane is additionally equipped with a glass-polyester blended fleece laminate on the underside. The special construction of Sarnafil® TG 76-20 E Felt PS is designed for adhered roofs.
(DE/E1 FPO-BV-E-GV-K-PV-2.0)

USES

Roofing membrane for adhered roofs using Sarnacol® 2142 S adhesive.
Sarnafil® TG 76-20 E Felt PS is primarily used on roofs with a pitch of ≥ 20° and for enhanced fire protection.

FEATURES

- Enhanced fire protection
- For bonded roof structures
- High resistance to hail impact
- High resistance to mechanical stress
- Long service life
- Compatible with bitumen

CERTIFICATES AND TEST REPORTS

- Single-ply membrane for roof waterproofing in accordance with DIN EN 13956, certified by certification body 1213-CPD-3914 and bearing the CE mark
- DIN/TS 20000-201:2025-02
- DIN 18531-2
- Fire performance in accordance with DIN EN 13501-1: Class E
- Tested against external fire exposure in accordance with DIN EN 1187 and classified according to DIN EN 13501-5: BROOF(t1)
- Resistance to flying sparks and radiant heat in accordance with DIN 4102/Part 7

PRODUCT INFORMATION

Composition	Flexible polyolefins (FPO)	
Packaging	Roll width	2 m
	Roll length	15 m
	Roll weight	70.5 kg
	Standard rolls are wrapped individually in a PE-foil. Refer to the current price list for available packaging variations.	
Colour	Top layer colour	beige, window grey (~RAL 7040), traffic white (~RAL 9016)
	Bottom layer colour	black
Shelf life	In unopened and undamaged original packaging the product remains its properties.	

Storage conditions	Store rolls horizontal on pallets under dry conditions and temperatures between +5 °C and +40 °C. Protect from direct sunlight, rain and snow. Do not stack pallets during transport or storage.	
Product declaration	DIN EN 13956 - Polymeric sheets for roof waterproofing	
Visible defects	pass	(DIN EN 1850-2)
Length	15 m (+0.75 m / -0 m)	(DIN EN 1848-2)
Width	2 m (+0.02 m / -0.01 m)	(DIN EN 1848-2)
Effective thickness	2 mm (+0.2 mm / -0.1 mm)	(DIN EN 1849-2)
Straightness	≤ 30 mm	(DIN EN 1848-2)
Flatness	≤ 10 mm	(DIN EN 1848-2)
Mass per unit area	2.35 kg/ m² (+0.24 kg/m² - 0.12 kg/ m²)	(DIN EN 1849-2)

TECHNICAL INFORMATION

Resistance to impact	Method A, hard substrate Method B, soft substrate	≥ 1000 mm ≥ 1750 mm	(DIN EN 12691)
Hail resistance	hard substrate soft substrate	≥ 30 m/s ≥ 40 m/s	(DIN EN 13583)
Resistance to static loading	hard substrate soft substrate	≥ 20 kg ≥ 20 kg	(DIN EN 12730)
Compressive strength	longitudinal (md)* transversal (cmd)* *md= machine direction *QM= cross machine direction	≥ 2 % ≥ 2 %	(DIN EN 12311-2)
Dimensional stability	longitudinal (md) transversal (cmd)	≤ |0.2| % ≤ |0.1| %	(DIN EN 1107-2)
Joint peel resistance	≥ 300 N/50 mm		(DIN EN 12316-2)
Joint shear resistance	≥ 300 N/50 mm		(DIN EN 12317-2)
Foldability at low temperature	≤ -20 °C		(EN 495-5)
External fire performance	BROOF (t1) < 20°, > 20° (DIN EN 13501-5) (DIN EN 1187) Resistance to flying sparks and radiant heat (for roof systems tested by Sika) Complies with roof pitch ≥ 20° (DIN CEN/TS 1187) (DIN 4102-7)		
Reaction to fire	Class E		(DIN EN 13501-1)
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	(DIN EN 1297)
Artificial ageing	pass		(DIN EN 1297)
Diffusion resistance to water vapour	μ = 150 000		(DIN EN 1931)

Watertightness	Method B: at 10 kPa	pass	(DIN EN 1928)
Maximum tensile force	longitudinal (md)	≥ 500 N/50 mm	(DIN EN 12311-2)
	transversal (cmd)	≥ 500 N/50 mm	

APPLICATION INFORMATION

Ambient air temperature	maximum	+60°C
	minimum	-20°C
Substrate temperature	maximum	+60°C
	minimum	-30°C

SYSTEM INFORMATION

System structure

System accessoiries:
- Sarnacol® 2142 S
- Sarnafil® AT-18 FSA P
- SikaRoof® Tape P
- Sarnafil® T 66-15 D (sheet for detailing)
- Sarnafil® TS 77 stripes
- Sarnafil® metal sheets
- Sarnabar® fastening system
- SikaRoof® RCS stainless steel mash
- Sarnafil® prefabricated parts
- Sarnafil® T Clean, Sarnafil® T Prep, Sika® Speed Clean set
- Sarnafil® roof drains and scuppers

Compatibility

Sarnafil® TG 76-20 E Felt PS is suitable for laying directly on existing, sufficiently cleaned, and leveled bitumen waterproofing, e.g. renovation of old flat roofs. Color changes to the surface are possible with 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

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

SUBSTRATE PREPARATION

The substrate surface must be uniform, smooth and free of any sharp protrusions or burrs, etc. The supporting layer must be compatible to the membrane and free of oil and grease. Cut open any blisters in the old waterproofing and repair. The safety of the existing roof buildup in terms of wind uplift must be ensured. Any insufficient secured sections or components (e.g. chippings, slating etc.) must be removed to provide a smooth surface.

Substrates:
- OSB boards
- Slated/mineral sprinkled bituminous sheets
- Laminated and coated mineral wool insulation boards
- Laminated PU insulation boards*
- EPS insulation boards

*for bonding on Aluminium-laminated PU insulation boards consult the Sika technical support.

APPLICATION METHOD / TOOLS

The seams of the roofing membranes are joined using a hot-air welding process. Welding is performed using automatic welding machines or hand-held welding tools. The welding temperature depends on several factors, such as ambient temperature, weather conditions, and welding speed. For information on the basic settings of hot-air welding machines, please refer to 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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