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PRODUCT DATA SHEET Sarnafil[®] TG 76-18 FSA

Polymeric membrane for adhered roof waterproofing

CE

DESCRIPTION

Sarnafil[®] TG 76-18 FSA is a FPO, multi-layer, self-adhesive, matt finish, weldable sheet membrane with a glass fibre, non-woven reinforcing inlay and polyester fleece backing according to EN 13956. Contains ultraviolet light stabilisers and flame retardants to provide a fast installation, low maintenance and durable membrane.

USES

Sarnafil[®] TG 76-18 FSA may only be used by experienced professionals.

• Roof waterproofing membrane for exposed flat roofs on smooth substrates

CHARACTERISTICS / ADVANTAGES

- Fast installation
- Instant wind uplift resistance through the self-adhesive backing
- Proven performance over decades
- Resistant to permanent UV exposure
- High dimensional stability from glass fibre inlay
- Resistant against impact load and hail
- Resistant to all common environmental influences
- Resistant to micro-organisms
- Hot air weldable
- No open flame equipment required

SUSTAINABILITY

- Conformity with LEED v4 SSc 5 (Option 1): Heat Island Reduction - Roof (only traffic white)
- Conformity with LEED v4 MRc 3 (Option 2): Building Product Disclosure and Optimization - Sourcing of Raw Materials
- Conformity with LEED v4 MRc 4 (Option 2): Building Product Disclosure and Optimization - Material Ingredients
- Conformity with LEED v2009 SSc 7.2 (Option 1): Heat Island Effect - Roof (only traffic white)
- Conformity with LEED v2009 MRc 4 (Option 2): Recycled Content

APPROVALS / CERTIFICATES

 CE Marking and Declaration of Performance to EN 13956 - Polymeric sheets for roof waterproofing

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PRODUCT INFORMATION

Composition	Flexible polyolefins (FPC	Flexible polyolefins (FPO)		
Packaging	Standard rolls are wrapped individually in a blue PE-foil.			
	Roll length	15,00 m		
	Roll width	2,00 m		
	Roll weight	69,00 kg		
Appearance / Colour	Surface	matt		
	Colours			
	Top surface	beige ~RAL 7040 (wir		
	Bottom surface	<u>~RAL 9016 (tra</u> black	ffic white)	
Shelf life	10 months from data of	foreduction		
		18 months from date of production		
Storage conditions	Product must be stored in original unopened and undamaged sealed pack- aging 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 oth- er, or under pallets of any other materials during transport or storage. Al- ways refer to packaging.			
Product declaration	EN 13956 - Polymeric sł	EN 13956 - Polymeric sheets for roof waterproofing		
Visible defects	Pass	Pass		
Length	15 m (-0 % / +5 %)	15 m (-0 % / +5 %)		
Width	2 m (-0,5 % / +1 %)		(EN 1848-2)	
Effective thickness	1,8 mm (-5 % / +10 %)	1,8 mm (-5 % / +10 %)		
Straightness	≤ 30 mm	≤ 30 mm		
Flatness	≤ 10 mm	≤ 10 mm		
Mass per unit area	2,3 kg/m² (-5 % / +10 %	2,3 kg/m² (-5 % / +10 %)		
TECHNICAL INFORMATIC	ON			
Resistance to impact	hard substrate	≥ 900 mm	(EN 12691)	
	soft substrate	≥ 1500 mm		
Hail resistance	rigid substrates	≥ 25 m/s	(EN 13583)	
	flexible substrates	≥ 37 m/s		
Resistance to static loading	soft substrate	≥ 20 kg	(EN 12730)	
	rigid substrate	≥ 20 kg	, , ,	
Tensile strength	longitudinal (md) 1)	≥ 500 N/50mm	(EN 12311-1)	
	transversal (cmd) ²⁾	≥ 500 N/50mm		
	1) md = machine direction, 2) cmd = cr	oss machine direction		
Elongation	longitudinal (md) ¹⁾	≥ 2 %	(EN 12311-2)	
	transversal (cmd) ²	≥2%		
	1) md = machine direction, 2) cmd = cr	oss machine direction		
	1			
Dimensional stability	longitudinal (md) 1)	≤ 0,2 %	(EN 1107-2)	



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Joint peel resistance	≥ 300 N/50 mm	(EN 12316-2)
Joint shear resistance	≥ 300 N/50 mm	(EN 12317-2)
Foldability at low temperature	≤ -25 °C	(EN 495-5)
External fire performance	B _{ROOF} (t1) < 20°, >20°	(EN 1187) (EN 13501-5)
Reaction to fire	Class E	(EN ISO 11925-2, classification to EN 13501-5)
Effect of liquid chemicals, including wa- ter	Resistant to many chemicals. information.	Contact Sika Technical Services for additional
Resistance to UV exposure	Pass (> 5000 h / grade 0)	(EN 1297)
Water vapour transmission	μ = 150 000	(EN 1931)
Watertightness	Pass	(EN 1928)

SYSTEMS

System structure	The following products must be co design: • Sarnafil® T 66-15 D Sheet for de • Sarnafil® T Metal Sheet • Sarnabar • Sarnafil® T Welding Cord • Sarnafil® T Prep / Sarnafil® T We • Sarnacol® T 660 • Solvent T 660 • Sarnafil® T Clean Primers:		
	Substrate	Primer	
	Sarnatherm PIR GT	Primer 600 / Primer 780	
	Sarnatherm PIR AL	none	
	EPS	none	
	OSB 3 / Plywood	Primer 600 / Primer 780	
	Concrete	Primer 600 / Primer 780	
	Mineral wool (Bondrock MV)	Primer 600 / Primer 780	
	Metal composite panel	none	
	Metal (Aluminum, galvanized stee	l) none	
	Bitumen sanded/slated	Primer 600	
	Ancillary Products: Prefabricated parts, roof drains, scuppers, walkway pads, decor profiles and protection sheets.		
Compatibility	Sarnatherm PIR GT (e.g. Kingspan TR 27), Sarnatherm PIR AL (e.g. Kingspan TR 26), EPS DAA (≥ 20 kg/m3 density, compressive strength >100 kPa), EPS S-Therm PLUS, EPS S-Therm ROOF, OSB 3 / Plywood, Concrete, Mineral- wool Bondrock MV, Metal composite panel released by TM Roofing (e.g. Brucha Panel), Metal (Aluminum, galvanized steel).		

Ambient air temperature5 °C min. / +60 °C max.Substrate temperature5 °C min. / +60 °C max.

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APPLICATION INSTRUCTIONS

EQUIPMENT

Hot welding overlap seams

Electric hot air welding equipment, such as hand held manual hot air welding equipment and pressure rollers or automatic hot air welding machines with controlled hot air temperature capability of a minimum +600 °C.

Recommended type of equipment:

- Manual: Leister Triac PID
- Automatic : Sarnamatic 681
- Semi-automatic: Leister Triac Drive

SUBSTRATE QUALITY

The supporting structure must be of sufficient structural strength to apply all new and existing layers of the roof build-up and the complete roof system must be designed and secured against wind uplift loadings. The substrate must be uniform, firm, solvent resistant, smooth and free of any sharp protrusion or burrs, clean, dry, free of grease, bitumen, oil, dust and loose surface sand / gravel dressing.

APPLICATION METHOD / TOOLS

Installation procedure

Strictly follow installation procedures as defined in method statements, application manuals and working instructions which must always be adjusted to the actual site conditions.

Substrate priming

Prime prepared substrate with appropriate primer Fixing Method

Sika [®] Method Statement: Fully adhered roof surfaces by integrated self-adhesive film and Sika [®] Method Statement: Sarnafil[®] TG 76-18 FSA

Hot welding overlap seams

Overlap seams must be welded by electric hot welding equipment. Welding parameters including temperature, machine speed, air flow, pressure and machine settings must be evaluated, adapted and checked on site according to the type of equipment and the climatic conditions prior to welding. The effective width of welded overlaps by hot air must be a minimum 20 mm.

Testing overlap seams

The seams must be mechanically tested with screwdriver or steel needle to ensure the integrity/completion of the weld. Any imperfections must be rectified by hot air welding.

FURTHER INFORMATION

Sika [®] Method Statement: Sarnafil[®] TG 76-18 FSA

IMPORTANT CONSIDERATIONS

Installation work must only be carried out by Sika[®] trained and approved contractors, experienced in this type of application.

- Do not apply to wet, damp or unclean surfaces
- Only apply to compatible materials (refer to compat-

ibility section).

- The use of Sarnafil[®] TG 76-18 FSA membrane is limited to geographical locations with average monthly minimum temperatures of -50 °C. Permanent ambient temperature during use is limited to +50 °C.
- The use of some ancillary products such as adhesives, cleaners and solvents is limited to temperatures above +5 °C. Observe temperature limitations in the appropriate Product Data Sheets.
- Special measures may be compulsory for installation below +5 °C ambient temperature due to safety requirements in accordance with national regulations.

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

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).

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

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Product Data Sheet Sarnafil® TG 76-18 FSA September 2020, Version 03.01 020910052050181001 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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