

PRODUCT DATA SHEET

Sarnafil® AT-18 FSH SA

Polymeric FPO membrane for adhered roof waterproofing

DESCRIPTION

Sarnafil® AT-18 FSH SA (thickness 1,8 mm) is a self-adhesive, multi-layer synthetic roof waterproofing sheet. It is based on elastomer modified flexible polyolefin (FPO) with internal glass fibre scrim reinforcement, a glass non-woven inlay and a polyester backing with special protection function, self-adhesive film and liner according to EN 13956.
(DE/E1 FPO-BV-V-GV-GG-K-PV-1,8-SK)

USES

Self-adhesive membrane for adhered roofs (also for use under gravel and green roofs)

FEATURES

- Fast installation
- Proven performance over decades
- Instant wind uplift resistance
- Very good resistance to permanent wind exposure
- Very good resistance to impact load and hail
- Very good mechanical resistance
- Very good resistance to permanent UV exposure
- Very good resistance to common environmental influences
- Proven resistance to root penetration
- Very good resistance to micro-organisms
- Compatible with old bitumen

CERTIFICATES AND TEST REPORTS

- CE marking and declaration of performance based on EN 13956

PRODUCT INFORMATION

Product declaration	DIN EN 13956 / DIN SPEC 20000-201
Composition	Flexible polyolefins (FPO)
Packaging	Standard rolls are wrapped individually in a blue PE-foil.
	Packing unit Refer to price list
	Roll length 10 m
	Roll width 2 m
	Roll weight 52 kg
	Refer to the current price list for available packaging variations.
Shelf life	18 month from date of production.

Storage conditions

The product must be stored in original unopened and undamaged sealed packaging in dry conditions and temperatures between + 5 °C and +30 °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 layer	window grey (~RAL 7040)
	Bottom layer	black
Visible defects	Pass	(EN 1850-2)
Length	10 m (+0,5 m / -0 m)	(EN 1848-2)
Width	2 m (+0,02 m / -0,01 m)	(EN 1848-2)
Effective thickness	1,8 mm (+0,18 mm / -0,09 mm)	(EN 1848-2)
Straightness	≤ 30 mm	(EN 1848-2)
Flatness	≤ 10 mm	(EN 1848-2)
Mass per area	2,6 kg/m ² (+0,25 kg/m ² / -0,125 kg/m ²)	(EN 1849-2)

SYSTEM INFORMATION**System structure**

The following products must be considered for use depending on roof design:

- Sarnafil® AT-18 FSA P self adhered membrane for parapet
- Sarnafil® AT D sheet for detailing
- Sarnavap® 5000 E SA vapour barrier
- Sarnafil® T Metal Sheet/coil
- Primer-600 and Primer-780
- Stainless steel measuring mash for Sika® Roof Control System
- Sarnafil® T Clean
- Sika® Speed Clean Set

Compatibility

The product is compatible with the following materials:

- Laminated PU boards: no primer on Alu-laminated*, Primer-780 on MV-lamination
- EPS boards: without primer
- Felt-laminated mineralfiber boards: Primer-780
- Laminated mineralfiber boards (e.g. Bondrock): Primer-600
- OSB boards: Primer-780
- Concrete: Primer-600
- Metal (aluminium, galvanized steel, minimum 0,75 mm): Primer-600
- Bitumen sheets: Primer-600

TECHNICAL INFORMATION

Resistance to impact	Hard substrate	≥ 1000 mm	(EN 12691)
	Soft substrate	≥ 3500 mm	
Hail resistance	Rigid substrate	≥ 31 m/s	(EN 13583)
	Flexible substrate	≥ 44 m/s	
Resistance to static loading	Soft substrate	≥ 20 kg	(EN 12730)
	Rigid substrate	≥ 20 kg	
Resistance to root penetration	Pass		(EN 13948)
Tensile strength	Longitudinal (MD)	≥ 500 N/50mm	(EN 12311-2)
	Transversal (CMD)	≥ 500 N/50mm	

Elongation	Longitudinal (MD)	≥ 2 %	(EN 12311-2)
	Transversal (CMD)	≥ 2 %	
Joint peel resistance	Failure mode	C, no failure of the joint	(EN 12316-2)
Joint shear resistance	≥ 400 N/50 mm		(EN 12317-2)
Dimensional stability	Longitudinal (MD)	≥ 0.2 %	(EN 1107-2)
	Transversal (CMD)	≥ 0.1 %	
Foldability at low temperature	≤ -50 °C		(EN 495-5)
Watertightness	Pass		(EN 1928)
Diffusion resistance to water vapour	μ = 190 000		(EN 1931)
Chemical resistance	Resistance to Ozone	Pass	(ISO 1431-1)
Exposure to bitumen	Pass		(EN 1548)
Effect of liquid chemicals, including water	Resistant to many chemicals. Contact Sika Technical Services for additional information.		(EN 1847)
External fire performance	Class B _{Roof} (t1) < 20°		(EN 13501-5)
Reaction to fire	Class E		(EN 13501-1)

APPLICATION INFORMATION

Ambient air temperature	Maximum	+60 °C
	Minimum	-20 °C
Substrate temperature	Maximum	+60 °C
	Minimum	-30 °C

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.

FURTHER INFORMATION

The use of Sarnafil® AT-18 FSH SA is limited on regions with a monthly average temperature of -50°C. The permanent ambient temperature during application is limited on +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

The general installation principles and processing instructions in the applicable Sarnafil® application manual must be observed. These can be requested from Sika Deutschland GmbH. Application should be carried out by Sika-trained applicators.

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.

Sika Deutschland GmbH

Kornwestheimer Straße 103 - 107

D - 70439 Stuttgart

Telefon: 0711/8009-0

Telefax: 0711/8009-321

E-Mail: info@de.sika.com

www.sika.de



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