

PRODUCT DATA SHEET

Sarnafil® AT-20

Polymeric waterproofing membrane

DESCRIPTION

Sarnafil® AT-20 (thickness 2 mm) is a multi-layer, hot-air weldable hybrid waterproofing membrane based on flexible polyolefins (FPO) with internal reinforcement made of glass fleece and polyester fabric. The backside of the membrane is equipped with a polypropylene fleece. Can be applied in all climatic zones.
 Application type: DE/E1 FPO-BV-V-PG-GV-2.0

USES

Sarnafil® AT-20 may only be used by experienced professionals.

Roof waterproofing membrane for mechanically fastened roofs and roofs under ballast

FEATURES

- Long service life
- High resistance to hail damage
- High resistance to mechanical impact
- Resistance to roots
- Compatible with bitumen

SUSTAINABILITY

- IBU Environmental Product Declaration (EPD)
- Cradle to Cradle Certified™; Silver Level

CERTIFICATES AND TEST REPORTS

- Polymeric membrane for roof waterproofing according to DIN EN 13956, approved by certification body 1213-CPR-6909 and bearing the CE mark.
- DIN/TS 20000-201:2025-02
- DIN 18531-2
- Fire behaviour according to DIN EN 13501-1; Class E
- Tested against external fire exposure according to DIN EN 1187 and classified according to DIN EN 13501-5; BROOF(t1)
- Resistance to flying sparks and radiant heat according to DIN 4102/Part 7
- Root resistance testing report (FLL), WeihenstephanTriesdorf/Germany

PRODUCT INFORMATION

Composition	Flexible polyolefins (FPO)
Reinforcing material	Internal reinforcement made of glass fleece and polyester fabric. Backside with polypropylene fleece (max. 70 g/m ²).
Packaging	Standard rolls are wrapped individually in a PE-foil.
Roll width	2 m
Roll length	15 m
Roll weight	66 kg
Refer to the current price list for available packaging variations.	

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Colour	Top layer colour	beige
	Bottom layer colour	window grey (~RAL 7040) traffic white (~RAL 9016)
Shelf life	In unopened and undamaged original packaging the product retains its properties.	
Storage conditions	Store horizontal in original unopened and undamaged sealed packaging under dry conditions and temperatures between -5 °C and +40 °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 the packaging.	
Product declaration	DIN EN 13956 / DIN/TS 20000-201:2025-02	
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)
Max. operating pressure	2.2 kg/m ² (+0.22 kg/m ² / -0.11 kg/m ²)	(EN 1849-2)
Appearance	matt	

TECHNICAL INFORMATION

Resistance to impact	Method A, hard substrate	≥ 1750 mm	(EN 12691)
	Method B, soft substrate	≥ 2750 mm	
Hail resistance	Hard substrate	≥ 29 m/s	(EN 13583)
	Soft substrate	≥ 42 m/s	
Resistance to static loading	Hard substrate	≥ 20 kg	(EN 12730)
	Soft substrate	≥ 20 kg	
Resistance to root penetration	pass		(EN 13948)
Dimensional stability	Longitudinal (MD), aged 6 hours at +80 °C	≤ 0.4 %	(EN 1107-2)
	Transversal (CMD), aged 6 hours at +80 °C	≤ 0.2 %	
	(MD) = machine direction; (CMD) = cross machine direction		
Resistance to tear	Longitudinal (MD)	≥ 300 N	(EN 12310-2)
	Transversal (CMD)	≥ 300 N	
Joint peel resistance	Failure mode C, no failure of the joint		(EN 12316-2)
Joint shear resistance	≥ 400 N/50 mm		(EN 12317-2)
Foldability at low temperature	≤ -50 °C		(EN 495-5)
External fire performance	B _{Roof} T1, roof angle < 20°	pass	(DIN CEN/TS 1187)
	B _{Roof} T4, roof angle < 10°	pass	(EN 13501-5)
			(DIN 4102-7)
Reaction to fire	Class E		(EN 13501-1)

Chemical resistance	Resistant to specific chemicals. Contact Sika Technical Services for additional information.	(EN 1847)
Exposure to bitumen	Bitumen compatibility	pass
Resistance to UV exposure	> 5000 hours UV exposure	Grade 0
Artificial ageing	pass	(EN 1297)
Diffusion resistance to water vapour	Resistance factor, Method A, tested at +23 °C and 75 % r.h.	$\mu = 190\,000$ (EN 1931)
Watertightness	pass	(EN 1928)
Maximum tensile force	Longitudinal (MD) Transversal (CMD)	$\geq 950\text{ N}/50\text{ mm}$ $\geq 900\text{ N}/50\text{ mm}$ (MD) = machine direction; (CMD) = cross machine direction
Elongation at maximum tensile force	Longitudinal (MD) Transversal (CMD)	$\geq 15\%$ $\geq 15\%$ (MD) = machine direction; (CMD) = cross machine direction

APPLICATION INFORMATION

Ambient air temperature	Maximum	+60 °C
	Minimum	-20 °C
Substrate temperature	Maximum	+60 °C
	Minimum	-25 °C

SYSTEM INFORMATION

Compatibility	Discolouration of the membrane surface may occur if it is in direct contact with bitumen. To prevent discolouration, use separation layer.
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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 DOCUMENTATION

Consult the Sika installation instructions

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

HOT-WELDING OVERLAP SEAMS

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

SUBSTRATE PREPARATION

The substrate surface must be smooth and uniform. The supporting layer must be compatible with the membrane, resistant to solvents and dry.

1. Remove any sharp protrusions or burrs from the substrate.
2. If contaminants such as grease or dust are present, clean the supporting layer.

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APPLICATION

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

The application of this product must only be carried out by an applicator that is trained or approved by Sika. The applicator must also be experienced in this type of application.

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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