

PRODUCT DATA SHEET

Sarnafil® S 327-18 Self Sealing Feltback

Polymeric PVC thermoplastic membrane with self-sealing felt backing

DESCRIPTION

Sarnafil® S 327-18 Self Sealing Feltback (thickness 1.8 mm) is a polyester reinforced, multi-layer, synthetic roof waterproofing sheet based on polyvinyl chloride (PVC) containing ultraviolet light stabilizers according to EN 13956. Sarnafil® S 327-18 Self Sealing Feltback is a hot-air weldable roof membrane formulated for direct exposure and designed to use in all global climatic conditions.

USES

Sarnafil® S 327-18 Self Sealing Feltback may only be used by experienced professionals. Waterproofing membrane for:

- Mechanically fastened roofing systems

Used in adhered applications with various adhesives over various substrates

AREAS OF APPLICATION

- New Roofs
- Reroofs
- Recovers

CHARACTERISTICS / ADVANTAGES

- Self-sealing properties prevent water intrusion after mechanical damage
- Excellent dimensional stability

- Factory applied lacquer coated to reduce dirt pick up
- Hot-air welded seams for long-term performance
- Proven membrane performance
- Superior fire resistance
- Proven performance over decades
- Resistant to permanent UV exposure
- Resistant to permanent wind exposure
- Resistant to all common environmental influences
- No open-flame equipment required
- High water vapor permeability

ENVIRONMENTAL INFORMATION

- Conformity with LEED v4 SSc 5 (Option 1): Heat Island Reduction - Roof (only 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 (only light grey and white)

CERTIFICATES AND TEST REPORTS

- Tensile Strength, Elongation at Break, Dimensional Stability and Watertightness tests EN 13956:2012, Sarnafil® S 327-18 Self Sealing Feltback, Sika, Test report No. RS19-21
- CE Marking and Declaration of Performance to EN 13956 - Polymeric sheets for roof waterproofing

PRODUCT INFORMATION

Composition	High-quality, PVC membrane containing ultraviolet light stabilizers, and polyester reinforcement with a unique lacquer coating on the top surface, felt backed
Packaging	Sarnafil® S 327-18 Self Sealing Feltback standard rolls are wrapped individually in a yellow PE- foil.

Appearance / Colour	Surface	Matt
	Top Surface	White
	Bottom surface	Dark grey
Shelf Life	5 years from date of production.	
Storage Conditions	Product must be stored in original unopened and undamaged 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.	
Product Declaration	EN 13956 Polymeric sheets for roof waterproofing	
Visible Defects	Pass	(EN 1850-2)
Length	15 m (-0 % / +5 %)	(EN 1848-2)
Width	2 m (-0.5 % / +1 %)	(EN 1848-2)
Effective Thickness	1.8 mm (-5 % / +10 %)	(EN 1849-2)
Mass per Unit Area	2.86 kg/m ² (-5 % / +10 %)	(EN 1849-2)
Felt Weight	325 g/m ²	

TECHNICAL INFORMATION

Resistance to Impact	hard substrate	≥ 800 mm	(EN 12691)
	soft substrate	≥ 1000 mm	
	pass		
Hail Resistance	rigid substrate	≥ 31 m/s	(EN 13583)
	soft substrate	≥ 36 m/s	
Resistance to Static Load	soft substrate	≥ 20 kg	(EN 1273)
	rigid substrate	≥ 20 kg	
Tensile Strength	longitudinal (md) ¹⁾	≥ 1000 N / 50 mm	(EN 12311-2)
	transversal (cmd) ²⁾	≥ 1000 N / 50 mm	
	1) md = machine direction 2) cmd = cross machine direction		
Elongation	longitudinal (md) ¹⁾	≥ 12 %	(EN 12311-2)
	transversal (cmd) ²⁾	≥ 12 %	
	1) md = machine direction 2) cmd = cross machine direction		
Dimensional Stability	longitudinal (md) ¹⁾	≤ 0.4 %	(EN 1107-2)
	transversal (cmd) ²⁾	≤ 0.4 %	
	1) md = machine direction 2) cmd = cross machine direction		
Tear Strength	longitudinal (md) ¹⁾	≥ 200 N	(EN 12310-2)
	transversal (cmd) ²⁾	≥ 200 N	
	1) md = machine direction 2) cmd = cross machine direction		
Joint Peel Resistance	Failure mode: C, no failure of the joint		(EN 12316-2)
Joint Shear Resistance	≥ 800 N / 50 mm		(EN 12317-2)
Foldability at Low Temperature	≤ -25 °C		(EN 495-5)
External Fire Performance	B _{ROOF} (t1) < 20°		(EN 1187) (EN 13501-5)

Reaction to Fire	Class E	(EN ISO 11925-2, classification to EN 13501-1)	
Resistance to UV Exposure	Pass (> 5000 h / grade 0)	(EN 1297)	
Water Vapour Transimission	$\mu = 15\ 000$	(EN 1391)	
Solar Reflectance Index	White	108 (Initial)	(ASTM E 1980)

APPLICATION INFORMATION

Ambient Air Temperature	-20 °C min. / +60 °C max.
Substrate Temperature	-30 °C min. / +60 °C max.

SYSTEM INFORMATION

System Structure	The following products must be considered for use depending on roof design: ▪ Sarnafil® G 410-15 L Sheet for detailing ▪ SikaRoof® Membrane M PVC ▪ Sarnabar® / Sarnafast® / S-U Bar ▪ S-Welding Cord PVC ▪ Sarnacol® 2170 (contact adhesive), Sarnacol® 2142 S, Sarnacol® 2152, SikaRoof® Adhesive C-733 ▪ Sarna Seam Cleaner ▪ Sarna Cleaner Ancillary Products: e.g. Prefabricated parts, roof drains, scuppers, walkway pad, decor profiles, protection sheets.
Compatibility	Not compatible in direct contact with bitumen, tar, fat, oil, solvent containing materials and other plastic materials, e.g. expanded polystyrene (EPS), extruded polystyrene (XPS), polyurethane (PUR), polyisocyanurate (PIR) or phenolic foam (PF). These materials could adversely affect the product's properties.

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.

FURTHER INFORMATION

Installation

- Application Manual

IMPORTANT CONSIDERATIONS

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

- Ensure Sarnafil® S 327-18 Self Sealing Feltback is prevented from direct contact with incompatible materials (refer to compatibility section).
- The use of Sarnafil® S 327-18 Self Sealing Feltback 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 installa-

tion below +5 °C ambient temperature due to safety requirements in accordance with national regulations.

- Sarnafil® S 327-18 Self Sealing Feltback must be installed by loose laying and without stretching or installing under tension.
- Ponding water does not affect the performance properties of the membrane.

ECOLOGY, HEALTH AND SAFETY

Fresh air ventilation must be ensured, when working (welding) in closed rooms.

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

APPLICATION INSTRUCTIONS

EQUIPMENT

Hot air welding overlap seams

Electric hot air welding equipment, such as handheld 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
- Automatic : Leister Varimat, Leister Uniroof
- Semi-automatic: Leister Triac Drive

SUBSTRATE QUALITY

The substrate surface must be uniform, smooth and free of any sharp protrusions or burrs, etc. Sarnafil® S 327-18 Self Sealing Feltback must be separated from any incompatible substrates / materials by an effective separation layer to prevent accelerated ageing. The supporting layer must be compatible with the membrane, solvent resistant, clean, dry and free of grease and dust. Metal sheets must be degreased with Sarna Cleaner before adhesive is applied.

APPLICATION

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

Fixing method - General

The waterproofing membrane is installed by loose laying (without stretching membrane or installing under tension) with mechanical fastening in seam overlaps or independent from overlaps. Overlap seams are hot air welded using specialized hot air equipment.

Fixing method-Spot fastening (Sarnafast®)

Sarnafil® S 327-18 Self Sealing Feltback must always be installed at right angles to the deck direction. Sarnafil® S 327-18 Self Sealing Feltback is fixed by means of the Sarnafast® fasteners and barbed washers/tubes along the marked line, 35 mm from the edge of the membrane. Sarnafil® S 327-18 Self Sealing Feltback is overlapped by 120 mm. The spacing of the fasteners is in accordance with the project specific Sika calculations (wind load calculation). At upstands and at all penetrations, the Sarnafil® S 327-18 Self Sealing Feltback membrane must be secured with a Sarnabar® / S-U Bar. The 4 mm diameter S-Welding Cord protects the Sarnafil® S 327-18 Self Sealing Feltback roof covering against tearing and peeling off by wind uplift.

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Product Data Sheet

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Installation method adhered system - General

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

Hot air welding method

Overlap seams must be welded by electric hot air 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.

Testing overlap seams

The seams must be mechanically tested with screw driver (rounded edges) to ensure the integrity/completion of the weld. Any imperfections must be rectified by hot air welding.

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.

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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