

PRODUCT DATA SHEET

Sarnafil® S 327-48 Feltback EnergySmart

48 mil thick PVC thermoplastic membrane with 9 oz. felt backing

PRODUCT DESCRIPTION

Sarnafil® S 327-48 Feltback EnergySmart Roof Membrane is a PVC thermoplastic membrane produced with an integral polyester reinforcement for high strength, is highly reflective, with heat-weldable seams, and a unique lacquer coating applied to the top of the membrane to reduce dirt pick up.

USES

Mechanically attached applications with various fastening methods, over various substrates. It can also be used in adhered applications to approved substrates.

AREAS OF APPLICATION

- In-seam disc systems
- In-seam batten, double-weld systems
- RhinoBond® systems
- New construction and reroofing

CHARACTERISTICS / ADVANTAGES



- Highly reflective
- Excellent tear strength resistance
- Factory applied lacquer coating to reduce dirt pick up
- Hot-air welded seams for long-term performance
- Proven membrane performance
- Superior fire resistance

APPROVALS / STANDARDS

- FM Global
- Underwriters Laboratories
- Underwriters Laboratories of Canada
- ICC Code Compliance ESR 1157
- Miami-Dade County
- Florida Building Code
- NSF/ANSI 347: Platinum Certified
- California Title 24
- LEED / Green Globes

PRODUCT INFORMATION

Chemical Base	High-quality, PVC membrane containing ultraviolet light stabilizers, flame retardant and polyester scrim reinforcement with a unique lacquer coating on the top surface.					
Recycled Content	9% Pre-consumer, 1% Post-consumer					
Reinforcing Material	Polyester					
Packaging	48 mil (1.2 mm) Membrane* 10 ft x 100 ft (3 m x 30 m) roll, 372 lbs (169 kg) per roll, 9 rolls per pallet * Made to order, minimum volume required, extended production lead times. Consult with Sika – Roofing representative for further information.					
Shelf Life	N/A	N/A				
Storage Conditions	Store rolls on pallets and fully protected from the weather with clean canvas tarpaulins. Unvented polyethylene tarpaulins are not accepted due to the accumulation of moisture beneath the tarpaulin in certain weather conditions that may affect the ease of membrane weldability.					
Appearance / Color	Top: White, Tan, and Reflective GrayBottom: Gray					
Overall Thickness	48 mil (minimum thickness) 45 mil	(ASTM D-751) (ASTM Type III D-4434 Spec. Requirement)				
Thickness Above Scrim	21 mil 16 mil	(ASTM D-7635) (ASTM Type III D-4434 Spec. Requirement)				
Felt Weight	9 oz/yd²					
TECHNICAL INFORMATION	1					
Resistance to Static Puncture	Pass 33 lbf (15 kg)	(ASTM D-5602) (ASTM Type III D-4434 Spec. Requirement)				
Resistance to Dynamic Puncture	Pass 14.7 ft-lbf (20 J)	(ASTM D-5635) (ASTM Type III D-4434 Spec. Requirement)				
Tensile Strength	295 lbf (1312 N) 200 lbf (890 N)	(ASTM D-751) (ASTM Type III D-4434 Spec. Requirement)				
Elongation at Break	27.5 & 28.5% MD & CMD ¹ 15 & 15% MD & CMD ¹ ¹ MD = Machine Direction, CMD = Cross Machi	(ASTM D-751) (ASTM Type III D-4434 Spec. Requirement) ne Direction.				
Tear Strength	47 lbf (209 N) 45 lbf (200 N)	(ASTM D-751) (ASTM Type III D-4434 Spec. Requirement)				
Seam Strength	Pass 75% of original ¹ ¹ Failure occurs through membrane rupture no	(ASTM D-751) (ASTM Type III D-4434 Spec. Requirement)				
Linear Dimensional Change	-0.10% 0.5%	(ASTM D-1204) (ASTM Type III D-4434 Spec. Requirement)				



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Solar Reflectance	EnergySmart Colors	Initial Solar Reflectance ¹		3-Year Solar Reflectance ¹		
	EnergySmart White ²	0.84	,	0.76		
	EnergySmart Tan ²	0.73		0.65		
	EnergySmart Reflective Gray ²	0.73		0.66		
	 Solar Reflectance testing according to ASTM C1549. Meets LEED, Green Globes, and California's Title 24 criteria for Low and Steep Slope applications. 					
Solar Reflectance Index	EnergySmart Colors	Initial Solar Reflectance Index ¹		3-Year Solar Reflectance Index ¹		
	EnergySmart White ²	105		93		
	EnergySmart Tan ²	89		78		
	EnergySmart Reflective Gray ²	90		80		
	¹ Solar Reflectance Index calculated according to ASTM E1980. ² Meets LEED, Green Globes, and California's Title 24 criteria for Low and Steep Slope applications.					
Thermal Emittance	EnergySmart Colors	Initial Thermal Emittance ¹		3-Year Thermal Emittance ¹		
	EnergySmart White ²	0.86		0.85		
	EnergySmart Tan ²	0.85		0.86		
	EnergySmart Reflective Gray ²	0.89		0.88		
	Thermal Emittance testing according to ASTM C1371, Slide Method. Meets LEED, Green Globes, and California's Title 24 criteria for Low and Steep Slope applications.					
Low Temperature Bend	Pass Pass -40°F (-40°C)	(ASTM D-2136) (ASTM Type III D-4434 Spec. Requirement)				
Weight Change after Immersion in Water	2.2% ± 3.0%		(ASTM Type II	(<i>J</i> II D-4434 Spec. R	ASTM D-570) equirement)	
UV Exposure	10,000 hours 5,000 hours		(ASTM Type II	(<i>F</i> II D-4434 Spec. R	ASTM G-154) equirement)	
	Cracking (7x magnification)	None				
	Crazing (7x magnification)	None				
Retention of Properties after Heat Ageing	Tensile Strength, % of original Tensile Strength, % of original Tensile Strength, % of or	al: Pass	(ASTM Type II		ASTM D-751) ASTM D-751) equirement)	

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

AVAILABILITY/WARRANTY

AVAILABILITY

Elongation, % of original: 90

From Sika Corporation – Roofing Authorized Applicators for use within Sarnafil or Sikaplan systems.

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WARRANTY

Upon successful completion of the installed roof by the Sika Authorized Applicator in compliance with Sika requirements, Sika Corporation will provide a warranty to the Building Owner via the Sika Authorized Applicator.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

APPLICATION INSTRUCTIONS

APPLICATION

Sarnafil S 327 is rolled out after proper preparation of the approved substrate and fastened to the roof deck with appropriate mechanically attached system with Sarnafasteners in accordance with Sika's technical requirements. Sarnafil S 327 seams are heat-welded together by trained operators using hot-air welding equipment. Different mechanically attached systems require different application methods. Please consult Sika's Specifications or Applicator Handbook for detailed installation procedures.

MAINTENANCE

Standard maintenance of Sarnafil and Sikaplan systems should include regular inspections of flashings, drains and termination sealants at least twice a year and after each storm.

OTHER RESTRICTIONS

See Legal Disclaimer.

Sika Corporation

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LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the

current product label, Product Data Sheet and Safety

Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF **MERCHANTABILITY OR FITNESS FOR A PARTICULAR** PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.

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