

PRODUCT DATA SHEET

Sikaplan® Fastened-60 Feltback

SIKAPLAN FASTENED ROOF MEMBRANE IS A PVC THERMOPLASTIC MEMBRANE

PRODUCT DESCRIPTION

Sikaplan® Fastened-60 Feltback EnergySmart Roof Membrane is a thermoplastic PVC membrane, with polyester scrim reinforcement which is manufactured with a recycled felt backing.

USES

Sikaplan Fastened is mechanically attached using various attachment components over approved substrates.

Areas of Application

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

CHARACTERISTICS / ADVANTAGES



- Excellent tear strength resistance
- Heat welded seams for strength and security

APPROVALS / STANDARDS

- FM Global
- Underwriters Laboratories
- Underwriters Laboratories of Canada
- ICC Code Compliance – ESR 1157
- Miami-Dade County
- Florida Building Code
- California Title 24
- LEED/Green Globes

PRODUCT INFORMATION

Chemical Base	Thermoplastic 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	60 mil (1.5 mm) Membrane Feltback: 10 ft x 100 ft (3 m x 30 m) feltback roll, 401 lbs (182 kg) per roll, 9 rolls per pallet	
Appearance / Color	<ul style="list-style-type: none"> ▪ Top: White, Reflective Gray, and Tan ▪ Bottom: Dark Gray 	
Shelf Life	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.	
Overall Thickness	60 mil nominal 45 mil	(ASTM D-751) (ASTM Type III D-4434 Spec. Requirement)
Thickness Above Scrim	24 mil 16 mil	(-) (ASTM Type III D-4434 Spec. Requirement)
Felt Weight	9 oz/yd ²	

TECHNICAL INFORMATION

Resistance to Static Puncture	Pass 33 lbf (15 kg)	(ASTM D-5602) (ASTM Type III D-4434 Spec. Requirement)
Resistance to Dynamic Puncture	Pass 7.3 ft-lbf (10 J)	(ASTM D-5635) (ASTM Type III D-4434 Spec. Requirement)
Tensile Strength	303 lbf (1348 N) 200 lbf (890 N)	(ASTM D-751) (ASTM Type III D-4434 Spec. Requirement)
Elongation at Break	20 & 20 % MD & CMD ¹ 15 & 15 % MD & CMD ¹	(ASTM D-751) (ASTM Type III D-4434 Spec. Requirement)
¹ MD = Machine Direction, CMD = Cross Machine Direction.		
Linear Dimensional Change	0.24 % 0.5 %	(ASTM D-1204) (ASTM Type III D-4434 Spec. Requirement)
Tear Strength	45 lbf (200 N) 45 lbf (200 N)	(ASTM D-751) (ASTM Type III D-4434 Spec. Requirement)
Seam Strength	Pass 75 % of original ²	(ASTM D-751) (ASTM Type III D-4434 Spec. Requirement)
² Failure occurs through membrane rupture not seam failure.		
Low Temperature Bend	Pass Pass -40°F (-40°C)	(ASTM D-2136) (ASTM Type III D-4434 Spec. Requirement)
Retention of Properties after Heat Aging	Tensile Strength, % of original: Pass Elongation, % of original: Pass Tensile Strength, % of original: 90 Elongation, % of original: 90	(ASTM D-3045) (ASTM D-751) (ASTM Type III D-4434 Spec. Requirement)

UV Exposure	10,000 hours	(ASTM G-154)
	5,000 hours	(ASTM Type III D-4434 Spec. Requirement)
	Cracking (7x magnification)	None
	Discoloration (by observation)	Negligible
	Crazing (7x magnification)	None

Weight Change after Immersion in Water	2.5 % ± 3.0 %	(ASTM D-570) (ASTM Type III D-4434 Spec. Requirement)
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Solar Reflectance	EnergySmart Colors	Initial Solar Reflectance¹	3-Year Solar Reflectance¹
	EnergySmart White	0.85	0.75
	EnergySmart Reflective Gray	0.73	0.66
	EnergySmart Tan	0.72	0.65 ²

¹ Solar Reflectance testing according to ASTM C1549.

² CRRC Rapid Ratings: These are interim laboratory-aged values that simulate weathered values. These values will be replaced with the measured three-year aged values upon completion of the weathering process. SRI values calculated using Rapid Ratings may change once the aged rating replaces the interim rating.

Thermal Emittance	EnergySmart Colors	Initial Thermal Emittance¹	3-Year Thermal Emittance¹
	EnergySmart White	0.89	0.90
	EnergySmart Reflective Gray	0.89	0.88
	EnergySmart Tan	0.89	0.88 ²

¹ Thermal Emittance testing according to ASTM C1371, Slide Method.

² CRRC Rapid Ratings: These are interim laboratory-aged values that simulate weathered values. These values will be replaced with the measured three-year aged values upon completion of the weathering process. SRI values calculated using Rapid Ratings may change once the aged rating replaces the interim rating.

Solar Reflectance Index	EnergySmart Colors	Initial Solar Reflectance Index	3-Year Solar Reflectance Index
	EnergySmart White	107	93
	EnergySmart Reflective Gray	90	80
	EnergySmart Tan	88	78 ¹

¹ CRRC Rapid Ratings: These are interim laboratory-aged values that simulate weathered values. These values will be replaced with the measured three-year aged values upon completion of the weathering process. SRI values calculated using Rapid Ratings may change once the aged rating replaces the interim rating.

APPLICATION INSTRUCTIONS

APPLICATION

Sikaplan Fastened is installed on acceptable substrates and fastened to the roof deck using the approved attachment method. The membrane is heat-welded together by trained mechanics using hot-air welding equipment. Sikaplan Fastened can be used for flashings on Sikaplan Fastened roof projects.

MAINTENANCE

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



AVAILABILITY/WARRANTY

Availability

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

Warranty

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

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.

OTHER RESTRICTIONS

See Legal Disclaimer.

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.

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.**

Sale of SIKA products are subject to the Terms and Conditions of Sale which are available at <https://usa.sika.com/en/group/SikaCorp/termsandconditions.html> or by calling 1-800-933-7452.

Sika Corporation

201 Polito Avenue
Lyndhurst, NJ 07071
Phone: +1-800-933-7452
Fax: +1-201-933-6225
usa.sika.com

Sika Sarnafil

100 Dan Road
Canton, MA 02021
Phone: +1 800-451-2504
Fax: +1 781-828-5365
usa.sarnafil.sika.com
webmaster.sarnafil@us.sika.com

Sika Mexicana S.A. de C.V.

Carretera Libre Celaya Km. 8.5
Fracc. Industrial Balvanera
Corregidora, Queretaro
C.P. 76920
Phone: 52 442 2385800
Fax: 52 442 2250537



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