PRODUCT DATA SHEET

Sikaplan® Fastened-60 Feltback EnergyS-mart

1.5 mm (60 mil) thick PVC thermoplastic membrane with felt backing

PRODUCT DESCRIPTION

Sikaplan® Fastened-60 Feltback EnergySmart EnergySmart Roof Membrane is a PVC thermoplastic membrane produced with a polyester scrim reinforcement and a 305 gram (9 oz.) or 101 gram (3 oz.) recycled felt backing.

WHERE TO USE

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



- · Highly reflective
- Excellent tear strength resistance
- Factory applied lacquer coating to reduce dirt pick up
- Hot-air welded seams for long-term performance
- Cost effective option for single-ply recovers (101 gram)
- Felt backing eliminates the need to install a overboard (101 gram)

APPROVALS / CERTIFICATES

- FM Global
- Underwriters Laboratories
- Underwriters Laboratories of Canada
- ICC Code Compliance ESR 1157
- Miami-Dade County
- Florida Building Code
- ENERGY STAR®
- California Title 24
- LEED/Green Globes
- CSA-A123.21

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PRODUCT INFORMATION

Composition / Manufacturing	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	1.5 mm (60 mil) Membrane 101 gram (3oz) Feltback: 3 m x 30 m (10 ft x 100 ft) feltback roll, 168 kg (371 lbs) per roll, 9 rolls per pallet		
	1.5 mm (60 mil) Membrane 305 gram (9oz) Feltback: 3 m \times 30 m (10 ft \times 100 ft) feltback roll, 176 kg (388 lbs) per roll, 9 rolls per pallet		
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.		
Appearance / Colour	 Top: White*, Reflective Grey, and Tan Bottom: Grey * 101 gram (3 oz) feltback is only available in white 		
Overall Thickness	1.5 mm (60 mil), nominal 1.14 mm (45 mil)	(ASTM D-751) (ASTM Type III D-4434 Spec. Requirement)	
Thickness Above Scrim	60 mm (24 mil) 40 mm (16 mil)	(ASTM D-7635) (ASTM Type III D-4434 Spec. Requirement)	
Felt Weight	101 g/m² (3 oz/yd²) 305 g/m² (9 oz/yd²)		
TECHNICAL INFORMATION			
Resistance to Static Puncture	Pass 15 kg (33 lbf)	(ASTM D-5602) (ASTM Type III D-4434 Spec. Requirement)	
Resistance to Dynamic Puncture	Pass 20 J (14.7 ft-lbf)	(ASTM D-5635) (ASTM Type III D-4434 Spec. Requirement)	
Tensile Strength	1348 N (303 lbf) 890 N (200 lbf)	(ASTM D-751) (ASTM Type III D-4434 Spec. Requirement)	
Elongation at Break	20 & 20% MD & CMD ¹ 15 & 15% MD & CMD ¹ 1 MD - Machine Direction CMD - Cross Machine	(ASTM D-751) (ASTM Type III D-4434 Spec. Requirement)	
Tear Strength	¹ MD = Machine Direction, CMD = Cross Machine Direction. 200 N (45 lbf) (ASTM D-75 200 N (45 lbf) (ASTM Type III D-4434 Spec. Requirement		
Seam Strength	Pass 75% of original ¹ 1 Failure occurs through membrane rupture not s	(ASTM D-751) (ASTM Type III D-4434 Spec. Requirement)	

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	0.5%	(ASTM Type III D-4434 Spec. Requirement)		
Solar Reflectance	EnergySmart Colors	Initial Solar Reflectance ¹	3-Year Solar Reflectance ¹	
	EnergySmart White	0.85	0.75	
	EnergySmart Reflective Gray ²	0.73	0.66	
	EnergySmart Tan ²	0.72	0.65	
	¹ Solar Reflectance testing accord ² 9 oz. Feltback only	ding to ASTM C-1549.		
Solar Reflectance Index	EnergySmart Colors	Initial Solar Reflectance Index ¹	3-Year Solar Reflectance Index ¹	
	EnergySmart White	107	93	
	EnergySmart Reflective Gray ²	90	80	
	EnergySmart Tan ²	88	78	
	1 Solar Reflectance Index calculated according to ASTM E-1980. 2 9 oz. Feltback only			
Thermal Emittance	EnergySmart Colors	Initial Thermal Emittance ¹	3-Year Thermal Emittance ¹	
	EnergySmart White	0.89	0.90	
	EnergySmart Reflective Gray ²	0.89	0.88	
	EnergySmart Tan ²	0.89	0.88	
	¹ Thermal Emittance testing according to ASTM C-1371, Slide Method. ² 9 oz. Feltback only			
Low Temperature Flexibility	Pass Pass -40°C (-40°F)	(ASTM D-2136) (ASTM Type III D-4434 Spec. Requirement)		
Weight Change after Immersion in Water	2.5% ± 3.0%	(ASTM D-570) (ASTM Type III D-4434 Spec. Requirement)		
Resistance to UV Exposure	10,000 hours 5,000 hours	(ASTM T	(ASTM G-154) Type III D-4434 Spec. Requirement)	
	Cracking (7x magnification)	None		
	Discoloration (by observation)	Negligible		
	Crazing (7x magnification)	None		
Retention of Properties after Heat Ageing			(ASTM D-3045)	
	Elongation, % of original Tensile Strength, % of original Elongation, % or original Elongation,	original: 90 (ASTM T	(ASTM D-751) Type III D-4434 Spec. Requirement)	





BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

OTHER DOCUMENTS

AVAILABILITY

Sikaplan® Fastened-60 Feltback EnergySmart is available directly from Sika Canada Authorized Applicators when used within a Sika® Sarnafil® Roofing System. Contact Sika Canada or visit our website at www.sika.ca for further information.

WARRANTY

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

LIMITATIONS

The Ambient Air Temperature -20°C (-4°F) min. / +60°C (140°F) max. during application.

The Substrate Temperature -30°C (-22°F) min. / +60°C (140°F) max. during application.

Not to be applied directly to polystyrene products. Sarnafil/Sikaplan membranes are incompatible with asphalt, coal tar, heavy oils, roofing cements, creosote and some preservative materials.

ENVIRONMENT, HEALTH & SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

APPLICATION

Sikaplan Fastened-60 Feltback EnergySmart 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 hotair welding equipment.

MAINTENANCE

Standard maintenance of Sikaplan systems should include regular inspections of flashings, drains and

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terminations sealants at least twice a year and after each storm.

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 exact product data and uses.



LEGAL NOTES

The information, and in particular, the recommendations relating to the application and enduse 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 recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. 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 or may be downloaded from our website at: www.sika.ca

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