

PRODUCT DATA SHEET

Sikaplan® Adhered-60 Feltback EnergySmart

PVC THERMOPLASTIC MEMBRANE

PRODUCT DESCRIPTION

Sikaplan® Adhered-60 Feltback EnergySmart EnergySmart Roof Membrane is a highly reflective, PVC thermoplastic membrane produced with an integral fiberglass mat reinforcement and a recycled felt backing.

WHERE TO USE

Sikaplan® Adhered is adhered to approved substrates.

AREAS OF APPLICATION

- Adhered roof systems
- Adhered roof flashings
- New construction and reroofing

CHARACTERISTICS / ADVANTAGES



- · Highly reflective
- Excellent dimensional stability
- Factory applied lacquer coating to reduce dirt pick up
- Hot-air welded seams for long-term performance

APPROVALS / CERTIFICATES

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

Product Data Sheet

Sikaplan® Adhered-60 Feltback EnergySmart August 2021, Version 05.01 020905051150153002

PRODUCT INFORMATION

Composition / Manufacturing		Thermoplastic PVC membrane containing ultraviolet light stabilizers, flame retardant and fiberglass reinforcement with a unique lacquer coating on the top surface.			
Recycled content	9% Pre-consumer, 1% Post-consumer				
Reinforcing Material	Fiberglass				
Packaging	1.5 mm (60 mil) Membrane 3 m x 30 m (10 ft x 100 ft) roll, 176 kg (388 lbs) per roll, 9 rolls per pallet				
Appearance / Colour	Top: White, Reflective Grey, and TanBottom: Grey				
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	1.5 mm (60 mil), nominal 1.1 mm (45 mil)	(ASTM D-751) (ASTM Type II D-4434 Spec. Requirement)			
Thickness Above Scrim	0.6 mm (24 mil) 0.4 mm (16 mil)	(ASTM D-7635) (ASTM Type II D-4434 Spec. Requirement)			
Felt Weight	305.15 g/m² (9 oz/yd²)				
TECHNICAL INFORMATION	I				
Resistance to Static Puncture	Pass 15 kg (33 lbf)	(ASTM D-5602) (ASTM Type II D-4434 Spec. Requirement)			
Resistance to Dynamic Puncture	Pass 10 J (7.3 ft-lbf)	(ASTM D-5635) (ASTM Type II D-4434 Spec. Requirement)			
Tensile Strength	285 N (64 lbf) 245 N (55 lbf)	(ASTM D-751) (ASTM Type II D-4434 Spec. Requirement)			
Elongation at Break	250 & 220% MD & CMD ¹ 250 & 220% MD & CMD ¹	(ASTM D-751) (ASTM Type II D-4434 Spec. Requirement)			
Linear Dimensional Change	¹ MD = Machine Direction, CMD = Cross Mach -0.02% 0.1%	(ASTM D-1204) (ASTM Type II D-4434 Spec. Requirement)			
Tear Strength	67 N (15 lbf) 45 N (10 lbf)	(ASTM D-751) (ASTM Type II D-4434 Spec. Requirement)			
Seam Strength	Pass 75% of original ² ² Failure occurs through membrane rupture n	(ASTM D-751) (ASTM Type II D-4434 Spec. Requirement) not seam failure.			
Low Temperature Flexibility	Pass Pass -40 °C (-40 °F)	(ASTM D-2136) (ASTM Type II D-4434 Spec. Requirement)			

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Retention of Properties after Heat Ageing	g Tensile Strength, % of o Elongation, % of origina Tensile Strength, % of o Elongation, % of origina	al: Pass original: 90	(ASTM Type II D-443	(ASTM D-3045) (ASTM D-751) 34 Spec. Requirement)	
Resistance to UV Exposure	10,000 hours 5,000 hours		(ASTM G-154) (ASTM Type II D-4434 Spec. Requirement)		
	Cracking (7x magnification)	None		_	
	Discolouration (by observation)	Negligible	9	_	
	Crazing None (7x magnification)			_	
Weight Change after Immersion in Water	r 2.4% ± 3.0%		(ASTM Type II D-443	(ASTM D-570) 34 Spec. Requirement)	
Solar Reflectance	EnergySmart Colours	Initial Solar Reflectance ¹	3-Yea	r Solar ctance ¹	
	EnergySmart White	0.85	0.73		
	EnergySmart Reflective Grey	0.73	0.66	0.66	
	EnergySmart Tan	0.72	0.65		
	¹ Solar Reflectance testing accord	ling to ASTM C-1549.			
Thermal Emittance	EnergySmart Colours	Initial Therm Emittance ¹		r Thermal ance ¹	
	EnergySmart White	0.89	0.89		
	EnergySmart Reflective Grey	0.89	0.88	0.88	
	EnergySmart Tan	0.89	0.88		
	¹ Thermal Emittance testing according to ASTM C-1371, Slide Method.				
Solar Reflectance Index	EnergySmart Colours	Initial Solar Reflectance I		r Solar ctance Index ¹	
	EnergySmart White	107	90		
	EnergySmart Reflective Grey	90	80		
	EnergySmart Tan	88	78		

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

¹ Solar Reflectance Index calculated according to ASTM E-1980.

Sikaplan® Adhered-60 Feltback EnergySmart is available directly from Sika Canada Authorized Applicators when used within a Sika® Sarnafil® Roofing or Waterproofing System.

Contact Sika Canada or visit our website at www.sika.ca for further information.

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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

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

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

Not to be applied directly to polystyrene products. Sarnafil® 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® Adhered is installed after proper preparation of the approved substrate. The membrane is unrolled into approved Sikaplan® or Sarnacol® adhesive in accordance with Sika's technical requirements and then pressed into place with a minimum 45 kg (100 lb) steel roller. Sikaplan® Adhered seams are heat-welded together by trained operators using hot-air welding equipment. Different Sarnacol® adhesives require different application methods. Please consult Sika's Specifications or Applicator Handbook for detailed installation procedures.

MAINTENANCE

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

Sika Canada Inc.

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Other locations

Boisbriand (Quebec) Brantford; Cambridge; Sudbury; Toronto (Ontario) Edmonton (Alberta) Surrey (British Columbia)

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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