

PRODUCT DATA SHEET

Sika® Thermotek SBS Cap Sheet FP SA 140 mils

Self-adhered SBS-modified bituminous cap sheet

PRODUCT DESCRIPTION

Sika® Thermotek SBS Cap Sheet FP SA 140 mils is an SBS-modified bituminous self-adhesive membrane with a thickness of 3.5 mm. It is reinforced with a durable non-woven polyester fabric to provide flexibility and dimensional stability. The top surface is coated with mineral granules, which allows the permanent exposure to UV radiation. The underside has a split removable liner over the adhesive compound for easy application.

USES

Sika® Thermotek SBS Cap Sheet FP SA 140 mils is used as a waterproofing cap sheet for:

- Flat or sloped roofs with up to 15% gradient
- Balconies and terraces

CHARACTERISTICS / ADVANTAGES

- Granule-free side and end laps with self-adhesive compound
- Flame-free application
- Accommodates a wide range of roof system, deck types and substrate combinations
- Excellent adhesion to multiple substrates
- High durability
- Split release film for quick installation

APPROVALS / STANDARDS

- Meets or exceeds the ASTM D6164, Type I, Grade G
- Underwriters Laboratory (UL)
- Florida Building Code
- FM Global
- Miami-Dade County Approved
- Texas Department of Insurance

PRODUCT INFORMATION

Chemical Base	SBS-modified bitumen	
Reinforcing Material	Non-woven polyester	
Packaging	Roll width	39.4" (1.0 m)
	Roll length	32.8 ft (10 m)
Shelf Life	9 months from the production date	
Storage Conditions	The Product must be stored in original unopened and undamaged packaging in dry conditions and temperatures between 41°F (5°C) and 95°F (35°C). Store in a vertical 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.	
Top surface	Mineral Granules with multiple color options	
Bottom Surface	Removable film	
Thickness	140 mils (3.5 mm)	
Weight	86 pounds per roll (39 kg per roll)	

TECHNICAL INFORMATION

Tensile Strength	At 0 °F (-18 °C)	≥ 70 lbf/in (12.3 kN/m)	(ASTM D5147)
	At +73 °F (+23 °C)	≥ 50 lbf/in (8.6 kN/m)	
Elongation	At 0 °F (-18 °C)	≥ 20%	(ASTM D5147)
	At +73 °F (+23 °C)	≥ 35%	
Dimensional Stability	≤ 1%		(ASTM D5147)
Tear Strength	≥ 55 lbf (246 N)		(ASTM D5147)
Adhesion in peel	Adhesion to Plywood:		(ASTM D1970)
	At 40 °F	2.0 lbf/ft (0.92 kgf/30.5 cm)	
	At 75 °F	12.0 lbf/ft (5.44 kgf/30.5 cm)	
Flow resistance	+215 °F (+102 °C)		(ASTM D5147)
Low Temperature Bend	0 °F (-18 °C)		(ASTM D5147)
Low Temperature Bend	≤ 2 gr		(ASTM D5147)

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.

USES

- When re-roofing, remove all existing roofing materials down to a clean, debris-free substrate, and properly seal all abandoned roof penetrations;
- Concrete or steel decks must be designed with appropriate expansion joints;
- Wood decks must be adequately supported by structural framing;
- Ensure that the installation does not block ventilation

- of the existing structure;
- Do not apply directly over shingles or other granulated-surface roofing systems.

AVAILABILITY/WARRANTY

AVAILABILITY

From Sika Corporation – Roofing Authorized Applicators when used within SikaShield systems.

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

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 0,1 % (w/w).

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

- The supporting structure must be of sufficient structural strength to support all new and existing layers of the system build-up.
- If used as a roof system, the complete system must be designed to withstand and be secured against wind uplift loadings.
- The substrate surface must be uniform, firm, smooth and free of any sharp protrusion or burrs, clean, dry, free of grease, laitance, oil, dust and loosely adhering particles.

SUBSTRATE PREPARATION

PRIMING

Prime concrete deck and required substrates with an ASTM D-41 asphalt primer.

APPLICATION

To avoid coinciding joints, lay the membranes parallel to one another, align it properly, ensure the specified overlaps are followed, and then re-roll it before application.

MEMBRANE OVERLAPS

- Overlap the membranes by a minimum of 3" (76 mm) on the sides and 6" (150 mm) on each end.
- At the end overlap, cut off a corner measuring 4" (100 mm) per side at an angle of 45°.
- End laps must be staggered 18" (46 cm) apart.
- Offset cap sheet side and end laps so they are positioned at least 12" (28 cm) away from any base ply laps.
- A minimum 20 lb (9 kg) roller must be used on all side and end laps, following immediately behind the heat welding. Apply uniform pressure across the lap area while the bituminous compound is warm to ensure a positive bond.
- A continuous bead of asphalt approximately 1/4 inch wide should be visible at all laps after application.
- The edge of the seam must be left untooled (not buttered).

IMPORTANT: DO NOT STACK LAPS!

SELF-ADHESIVE BONDING

1. At one end of the sheet, remove the first 18-24" of release film and press the membrane into place with firm, even pressure.
2. Gradually remove the remaining release film, applying pressure from the center to the edges.
3. Roll the entire surface area of the applied membrane with a heavy roller to ensure any air bubbles are removed.

Suitable substrates:

- Concrete
- Gypsum coverboard
- Metal substrates
- Rigid coverboards
- Wood
- Bituminous membranes with a smooth surface

DETAILING

Use a sharp knife to cut in all details such as internal and external corners, upstands, vent pipes, drains, support metalwork etc.

Refer to the relevant method statement for further information on detailing.

MAINTENANCE

Standard maintenance of SikaShield system should include regular inspections of flashings, drains and terminations sealants at least twice a year and after each storm.

OTHER RESTRICTIONS

See Legal Disclaimer.

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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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