

BUILDING TRUST

PRODUCT DATA SHEET

Vapor Retarder SA 31

Self-adhesive vapor retarder/air barrier

PRODUCT DESCRIPTION

Vapor Retarder SA 31 is a 31 mil (0.8 mm) thick self-adhesive vapor retarder/air barrier for use within Sarnafil® and Sikaplan® insulated roofing systems. Vapor Retarder SA 31 can also serve as temporary roof protection in areas limited to light construction traffic. It can be left exposed for up to two (2) months.

USES

- Vapor retarder/air barrier within Sarnafil and Sikaplan insulated roofing systems
- Temporary roof protection in areas limited to light construction traffic

AREAS OF APPLICATION

 Direct application to steel, concrete, gypsum decks, approved gypsum boards, and plywood

CHARACTERISTICS / ADVANTAGES

- Roll width specifically designed to allow the side lap to align with the top flutes of most structural steel decks, reducing waste and maximizing coverage
- Polyethylene facer accepts approved urethane adhesives for insulation attachment

APPROVALS / STANDARDS

- FM Global
- Underwriters Laboratories
- Meets 2012 IECC Air Barrier requirements, Materials (Section C402.4.1.2.1)

Vapor Retarder SA 31 January 2022, Version 09.01 020945303100000006

PRODUCT INFORMATION

Chemical Base	Self-adhesive SBS modifi	ed hitumen with a tri-laminated	d woven nolvethylene
	Self-adhesive SBS modified bitumen with a tri-laminated woven polyethylene facer. The self-adhesive back side is covered by a release liner.		
Packaging	44.8" (1.14 m) x 133.8 ft (40.8 m) roll, 81 lbs (37 kg) per roll 25 rolls per pallet		
Shelf Life	N/A	N/A	
Storage Conditions	Rolls must be stored upright with the selvedge side of the roll up. If the rolls are stored outdoors, cover them with an opaque protective cover after removal of the delivery packaging.		
Effective Thickness	31 mil (0.8 mm)		(ASTM D-5147
TECHNICAL INFORMATION	l		
Resistance to Dynamic Puncture	152 lbf (675 N)		(ASTM E-154
Tensile Strength	Machine Direction	Cross Machine Direction	(ASTM D-5147
	54 lbf/in (9.5 kN/m)	68 lbf/in (12 kN/m)	,
Elongation at Break	Machine Direction	Cross Machine Direction	(ASTM D-5147
	33%	20%	<u></u>
Adhesion in peel	5.4 lbf/in (950 N/m)		(ASTM D-903
Tear Strength	Machine Direction	Cross Machine Direction	(ASTM D-1970
	90 lbf/in (400 kN/m)	79 lbf/in (350 kN/m)	
Seam Strength	41 lbf/ft (600 N/m)		(ASTM D-1876
Low Temperature Bend	-35°F (-30°C)		(ASTM D-5147
Water Absorption	0.1% max.		(ASTM D-5147
Water Vapor Transmission	0.018 perm (1.04 ng/(Pa·s·m²))		(ASTM E-96 Procedure C, Desiccant Method
Permeability to air	<0.000012 L/(Pa·m²·s)		(ASTM E-2178
Air flow rate	<0.00006 cfm/ft² (<0.0003 L/(s·m²))		(ASTM E-2178

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

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

LIMITATIONS

- Install Vapor Retarder SA 31 in temperatures 14°F (-10°C) and above.
- Do not install Vapor Retarder SA 31 when it is raining, snowing, or on wet/humid surfaces.
- Positive slope and adequate drainage are required when left exposed to precipitation.
- Protect Vapor Retarder SA 31 from potential damage caused by construction traffic and other jobsite activities.

Product Data Sheet Vapor Retarder SA 31 January 2022, Version 09.01 020945303100000006



• Do not apply hot asphalt over Vapor Retarder SA 31.

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

SUBSTRATE PREPARATION

All surfaces must be clean, sound, dry, and free of loose materials or contaminants such as water, frost, ice, oil and grease that would interfere with proper adhesion and compromise the performance of the product.

In accordance with the ICRI Technical Guideline No. 310.2R-2013, newly poured concrete surfaces must be finished by forming, wood float, steel or power trowel, or broom finished to meet a CSP of 2-5.

Application to all substrates except steel require priming with Vapor Retarder Primer SB, Vapor Retarder Primer VC or Vapor Retarder Primer WB. See Vapor Retarder Primer SB, Vapor Retarder Primer VC or Vapor Retarder Primer WB product data sheets for additional information.

APPLICATION

Begin the installation at the low point of the roof. Unroll Vapor Retarder SA 31 onto the substrate for alignment. Overlap each sheet by 3" (7.6 cm) on the side lap and 6" (15.2 cm) on the end laps. Priming laps may be required at cold temperatures.

Once the roll is aligned, peel back a portion of the release liner and press Vapor Retarder SA 31 onto the substrate. When securely adhered, remove the remaining release liner from the roll.

On steel decks install a 6" x 42" (15.2 cm x 1.1 m) metal plate under the end lap to support the membrane between the steel flutes. Stagger the end laps by at least 12" (30.5 cm).

Use a minimum 75 lb (34 kg) steel roller to press the Vapor Retarder SA 31 onto the substrate including the laps. Use the roller to push out any air bubbles out to the edge of the membrane. Do not cut the membrane to remove a bubble.

Apply Sika's Mastic to seal around penetrations, T-joints,

90° angle transitions, fishmouths or other openings. Use a trowel to mound Sika's Mastic around the penetrations to seal the opening. Do not apply Sika's Mastic where it may come into direct contact with the Sarnafil or Sikaplan membrane.

MAINTENANCE

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

OTHER RESTRICTIONS

See Legal Disclaimer.



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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Product Data Sheet Vapor Retarder SA 31 January 2022, Version 09.01 020945303100000006

