BUILDING TRUST

PRODUCT DATA SHEET

Vapor Retarder SA 106

Self-adhesive vapor retarder

PRODUCT DESCRIPTION

Vapor Retarder SA 106 is a 106 mil (2.7 mm) thick self-adhesive vapor retarder for use within Sarnafil® and Sikaplan® insulated roof systems. Vapor Retarder SA 106 can also serve as temporary roof protection. It can be left exposed for up to six (6) months.

USES

- Vapor retarder within Sarnafil and Sikaplan insulated roofing systems
- Temporary roof protection

AREAS OF APPLICATION

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

CHARACTERISTICS / ADVANTAGES

- Robust vapor retarder with durable weathering surface that allows for exposure for up to six (6) months
- Self-adhering side laps to simplify installation
- Sanded surface accepts approved urethane adhesives for insulation or membrane attachment

APPROVALS / STANDARDS

- FM Global
- Underwriters Laboratories
- Meets ASTM D6164, Type I, Grade S

PRODUCT INFORMATION

Chemical Base	Self-adhesive SBS polymer modified bitumen with a non-woven polyester mat reinforcement and fine mineral aggregate (sand) topside. The self-adhesive underside is covered by a protective release liner that is removed during application.
Packaging	39.4" (1 m) x 49.2 ft (15 m) roll, 103 lbs (46.5 kg) per roll 20 rolls per pallet
Shelf Life	N/A
Storage Conditions	Store rolls on end and maintain in an upright position to prevent damage. Store rolls in a clean dry location and cover as necessary to protect rolls from environmental damage such as extreme cold, heat, or moisture.
Effective Thickness	106 mil (2.7 mm)
Mass per Unit Area	63 lb/100ft² (3098 g/m²)

TECHNICAL INFORMATION

Tensile Strength	Peak load @ 0°F (-18°C)		(ASTM D-5147)
	Machine Direction	**Cross Machine Direction**	
	110 lbf/in (19.3 kN/m)	85 lbf/in (14.9 kN/m)	
	Peak load @ 73.4°F (23°C)		
	Machine Direction	**Cross Machine Direction**	
	85 lbf/in (14.9 kN/m)	65 lbf/in (11.4 kN/m)	
Elongation	Elongation at peak load @ 0°F (-18°C)		(ASTM D-5147)
	Machine Direction	**Cross Machine Direction**	
	35 %	40 %	
	Elongation at peak load @ 73.4°F (23°C)		
	Machine Direction	**Cross Machine Direction**	
	55 %	60 %	
	Ultimate elongation @ 73.4°F (23°C)		
	Machine Direction	**Cross Machine Direction**	
	60 %	65 %	
Dimensional Stability	**Machine Direction**	**Cross Machine Direction**	(ASTM D-5147)
	<0.5 %	<0.5 %	
Tear Strength	**Machine Direction**	**Cross Machine Direction**	(ASTM D-5147) at 73.4 °F (23 °C)
	125 lbf (556 N)	85 lbf (378 N)	
Permeability to Water Vapor	0.010 perm (0.543 ng/(Pa·s·m²))		(ASTM E-96)

Service Temperature	240°F (116°C)	(ASTM D-5147)
Low Temperature Bend	-15°F (-26°C)	(ASTM D-5147)

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 106 in temperatures 50°F (10°C) and above.
- Store Vapor Retarder SA 106 in a heated area to maintain a roll temperature above 70°F (21°C) prior to applications between 40°F (4°C) and 50°F (10°C).
- Not intended to perform under ponding water conditions. Positive drainage is required.
- Results will vary with sun, wind, cloud cover and shade conditions.
- Do not install Vapor Retarder SA 106 when it is raining, snowing, or on wet/humid surfaces.
- Protect Vapor Retarder SA 106 from potential damage caused by construction traffic and other jobsite activities.

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, smooth, sound, dry, and free of loose materials, debris or contaminants such as water, moisture, 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 may be finished by forming, wood float, steel or power trowel, or broom finished to meet the equivalency of a CSP type surface between a rating of 2 – 5.

APPLICATION

Vapor Retarder Primer SB, Vapor Retarder Primer VC or Vapor Retarder Primer WB is required on all substrates except for steel. Concrete surfaces must be dry before installation. Shake or stir primer before applying. Primers can be rolled, brushed or sprayed. Let the primer dry completely. Begin the installation at the low point of the roof. Chalk a line on the deck to align the sheet. Unroll, position, and align Vapor Retarder SA 106 with the release liner covered selvage edge on the up-slope side. After the sheet is placed in its final position, loosely reroll half of the sheet toward the center of the roll.

Carefully score the release liner across the width of the roll with a straight blade utility knife. Roll Vapor Retarder SA 106 into its final position as the release liner is being removed. Re-roll the remaining Vapor Retarder SA 106 and repeat the process.

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). Roll Vapor Retarder SA 106 with a 75 lb (34 kg) steel roller to ensure full contact with the substrate.

Align successive sheets with 3" (7.6 cm) side laps and 6" (15.2 cm) end laps. The seam area has a pre-applied primer/adhesive on one side for mating with the bottom of the next sheet. Remove the release liner from the seam area and mate the top sheet to the bottom. Roll the seam area to ensure full contact. Hot air weld the end laps. Hot air welded laps must show a minimum ½" (1.3 cm) bleed out. Stagger adjacent end laps a minimum of 12" (30.5 cm). Apply Sika's Mastic to seal around penetrations. 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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