BUILDING TRUST

PRODUCT DATA SHEET

Liquid Flashing SW

Two-component polymethyl methacrylate-based (PMMA) liquid flashing material

PRODUCT DESCRIPTION

Liquid Flashing SW (summer-grade white) is a two-component polymethyl methacrylate-based (PMMA) liquid flashing material used in Sarnafil® and Sikaplan® roofing details. Liquid Flashing SW is used with Liquid Flashing Fleece and cures to form a monolithic reinforced flashing membrane.

USES

Liquid flashing for Sarnafil® and Sikaplan® roofing details

AREAS OF APPLICATION

- Details that are difficult to flash with a sheet membrane
- Angle Iron
- H-Beam / I-Beam
- Close Multiple Conduits

CHARACTERISTICS / ADVANTAGES

- Compatible with Sarnafil and Sikaplan membranes
- High performance liquid flashing solution for complex details
- Fleece reinforced flashing system for strength and durability

PRODUCT INFORMATION

Chemical Base	Two-component polymethyl methacrylate (PMMA) liquid	
Packaging	2.5 gallon (9.8 L) pails, 26.5 lbs (12 kg) per pail, 60 pails per pallet	
Color	White	
Shelf Life	Liquid Flashing SW has a shelf life of up to 12 months in the original unopened pail when properly stored, sealed and unmixed.	
Storage Conditions	Store in a tightly closed container in a cool, dry, ventilated area away from heat and oxidizing agent. Do not store in direct sunlight or in temperatures below 32°F (0°C) or above 77°F (25°C). Keep away from open fire, flame or any ignition source.	
Volatile organic compound (VOC) content	4.2 g/L (Liquid Flashing SW + Liquid Flashing Catalyst Combined)	
Overall Thickness	115 mils (2.9 mm)	(ASTM D-5147 Section 5) Membrane Thickness with Fleece, min.

TECHNICAL INFORMATION

Shore A Hardness	81	(ASTM D-2240)
Tensile Strength	70 lbf/in (12.3 kN/m) Peak Load @ 73°F (23°C), ave. 90 lbf/in (15.8 kN/m) Peak Load @ 73°F (23°C), ave.	(ASTM D-5147 Section 6) (ASTM D-412 Dumbell)
Elongation at Break	42% Elongation @ Peak Load, ave. 55% Elongation @ Peak Load, ave.	(ASTM D-5147 Section 6) (ASTM D-412 Dumbell)
Dimensional Stability	0.063%	(ASTM D-5147 Section 10) max. movement
Tear Strength	107 lbf (0.5 kN)	(ASTM D-5147 Section 7)
Low Temperature Bend	-13°F (-25°C)	(ASTM D-5147 Section 11)
Water Absorption	0.41% 1.57%	(ASTM D-570) Method I, 24 hours at 73°F (23°C) (ASTM D-570) Method I, 48 hours at 122°F (50°C)

APPLICATION INFORMATION

Coverage	43 ft² (4 m²) per 2.5 gallon (9.8 L) pail at 115 mil (2.9 mm) thickness

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. This product is covered under Sika Corporation warranties up to twenty (20) years in duration.

LIMITATIONS

- Precautions should be taken to prevent odors and/or vapors from entering the building/structure, including but not limited to turning off and sealing air intake vents or other means of ingress for odors and/or vapors into the building/structure during product application and cure.
- Must be mixed with Liquid Flashing Catalyst to induce curing of material. Mixing of this product with Liquid Flashing Catalyst may generate excess heat, USE CAUTION. Please refer to the product Safety Data Sheet (SDS) for additional information.
- Apply Liquid Flashing SW when ambient temperatures are between 50 - 95°F (10 - 35°C) and substrate temperatures are between 50 - 122°F (10 - 50°C). Product temperature should be between 50 - 86°F (10 - 30°C).
- Apply Liquid Flashing SW while ambient temperatures remain 5 degrees above the dew point.
- Do not use in applications where the surface of the detail will exceed 150°F (65°C) (e.g. hot stacks).
- Liquid Flashing cannot be used as a substitute where common standard membrane details are used and will provide equal to or better water tightness than the Liquid Flashing solution.
- Liquid Flashing cannot be used to flash a drain or line a gutter.
- Liquid Flashing cannot be used where there is ponding water.
- Liquid Flashing cannot be used for square scuppers.
- Liquid Flashing cannot be used to strip in any metal edge.
- Liquid Flashing cannot be used in lieu of sealants, a clamping ring, and/or a reglet.
- Liquid Flashing cannot be used over pitch pockets.
- Liquid Flashing cannot be used to flash to glass or windows.
- Liquid Flashing cannot be used to flash onto fluoropolymer coated surfaces.
- Liquid Flashing cannot be used at low flashing height conditions less than 4" (101 mm).
- Liquid Flashing cannot be used as a patch.
- Liquid Flashing cannot be painted.
- Liquid Flashing cannot be used in waterproofing applications.

MAINTENANCE

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

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

1. All surfaces should be clean, dry, free of dirt, dust, debris, loose particles, loose paint, rust and other contaminants.
2. Clean new roofing membrane with cleaner which will not remove the lacquer coating from the membrane. If the membrane is old or extremely soiled Sika's Seam Cleaner should be used to restore the membrane to a `like new' condition before applying Liquid Flashing.
3. Clean and prepare metal surfaces to near white metal in accordance with SSPC-SP3 (power tool clean). If power tools are not available, use abrasive paper with a grain size of 20 to 40 to remove all loose particles including paint flakes and rust.
4. Grind concrete and masonry surfaces with diamond cup wheel to remove laitance and contaminants.
5. Lightly sand rigid PVC and plastic surfaces. Extend surface preparation a minimum of 1/8" (3 mm) beyond the termination of the flashing.
6. Wipe metal surfaces with Sika's Seam Cleaner and allow to dry.
7. For repairs or touch-up, wipe previously installed Liquid Flashing with Sika's Seam Cleaner to clean and reactivate the Liquid Flashing and allow to dry.
8. Prime wood and concrete surfaces with Liquid Flashing Primer. Allow Liquid Flashing Primer to dry to the touch before applying Liquid Flashing.
9. If a gap of more than 1/4" (6.3 mm) exists between edge of horizontal membrane surface and vertical transition surface, the gap must be filled with Sikaflex®-1a.

APPLICATION

1. Pre-cut Liquid Flashing Fleece to fit around the penetration. Vertical flashing pieces must extend 2" (51 mm) from the base onto the horizontal and horizontal flashing pieces must extend 4" (10.2 cm) out from the base of any penetration. Flashing height should be a minimum of 8" (20.3 cm). Horizontal flashing fleece pieces must extend a minimum of 4" (10.2 cm) beyond the leading edge of the penetration, or a minimum of 2" (51 mm) beyond the edge of the fastening plate. Add 2" (51 mm) for the overlap with adjoining pieces.
2. Once the edges of the fleece are determined, mark a line on the membrane ½" (13 mm) beyond the edge of

the fleece and apply painter's tape. This will accommodate the ½" (13 mm) of non-reinforced Liquid Flashing needed to terminate to the membrane.
3. With the tape in place, clean the membrane within the area using Sika's Seam Cleaner, acetone, or methyl ethyl ketone (MEK) including the plates and the penetration.
4. Thoroughly stir the entire container of Liquid Flashing with a slow-speed (200 to 400 rpm) mechanical mixer (electric drill with a mixing blade) for two minutes.
5. Pour 1 liter of Liquid Flashing into a clean plastic container. Add Liquid Flashing Catalyst to Liquid Flashing SW at rates depending on ambient temperature (*see Mixing Rates table below*). Mix using a slow-speed mechanical mixer with a separate mixing paddle for two minutes. Once mixed, the pot life is approximately 10 - 15 minutes depending on the ambient temperature.
6. Using a small ½" (13 mm) nap roller with rounded edges or 2" (51 mm) disposable paint brush apply 55 mils (1.4 mm) of catalyzed Liquid Flashing onto the penetration up to the finished flashing height and 2" (51 mm) onto the roof membrane.
7. Embed the pre-cut vertical Liquid Flashing Fleece into the wet Liquid Flashing. Use the roller or brush to eliminate wrinkles and air bubbles while completely saturating the Liquid Flashing Fleece. Apply additional catalyzed Liquid Flashing at the 2" (51 mm) overlap between the vertical Liquid Flashing Fleece layers.
8. Apply 55 mils (1.4 mm) of catalyzed Liquid Flashing onto the roof membrane extending slightly onto the painter's tape. Also coat the 2" (51 mm) fingers from the vertical Liquid Flashing Fleece.
9. Embed the pre-cut horizontal Liquid Flashing Fleece into the wet Liquid Flashing. Use the roller or brush to eliminate wrinkles and air bubbles while completely saturating the Liquid Flashing Fleece. Apply additional catalyzed Liquid Flashing at the 2" (51 mm) overlap between the horizontal Liquid Flashing Fleece layers.
10. Apply 25 mils (0.6 mm) of catalyzed Liquid Flashing over the entire exposed vertical and horizontal flashing fleece terminating at the finished flashing height on the vertical and onto the painter's tape on the roof. Make sure the fleece is fully saturated without any dry spots.
11. Remove the painter's tape immediately after applying the final 25 mils (0.6 mm) of catalyzed Liquid Flashing.

Note:
Complex and/or irregular shapes including nuts, bolts, etc. may require an additional 25 mils (0.6 mm) of catalyzed Liquid Flashing to ensure full coverage. Wait one hour before applications. For repairs or touch-up, wipe cured Liquid Flashing with Sika's Seam Cleaner to clean and allow to dry.

MIXING RATES

Ambient Temperature	Catalyst to Add
50°F (10°C) to 68°F (20°C)	5 tablespoons (50 g)
68°F (20°C) to 95°F (35°C)	2.5 tablespoons (25 g)

COVERAGE

43 ft² (4 m²) per 2.6 gal (10 L) pail at 115 mil (2.9 mm) total thickness

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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Sika Corporation
201 Polito Avenue
Lyndhurst, NJ 07071
Phone: +1-800-933-7452
Fax: +1-201-933-6225
usa.sika.com

Sika Sarnafil
100 Dan Road
Canton, MA 02021
Phone: +1 800-451-2504
Fax: +1 781-828-5365
usa.sika.com/sarnafil
webmaster.sarnafil@us.sika.com

Sika Mexicana S.A. de C.V.
Carretera Libre Celaya Km. 8.5
Fracc. Industrial Balvanera
Corregidora, Queretaro
C.P. 76920
Phone: 52 442 2385800
Fax: 52 442 2250537