



# PRODUCT DATA SHEET

## LIQUID FLASHING WW

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

### PRODUCT INFORMATION

#### USES

Liquid flashing for Sarnafil and Sikaplan roofing details

#### AREAS OF APPLICATION

- Details that are difficult to flash with a sheet membrane
- Angle Iron
- I-Beam
- Close Multiple Conduits
- Wooden surfaces
- Concrete surfaces

#### FEATURES / BENEFITS

- Compatible with Sarnafil and Sikaplan membranes
- High performance liquid flashing solution for complex details
- Fleece reinforced flashing system for strength and durability
- Cures quickly after mixing to provide protection

### PRODUCT DATA

#### FORM

#### COMPOSITION

Two-component polymethyl methacrylate (PMMA) liquid

#### COLOR

White

#### VOC CONTENT

4.2 g/L (Liquid Flashing WW + Liquid Flashing Catalyst Combined)

#### PACKAGING

2.6 gallon (10 L) pails, 26.5 lbs (12 kg) per pail, 60 pails per pallet

#### STORAGE

#### 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.

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## SHELF LIFE

Liquid Flashing WW has a shelf life of up to 12 months in the original unopened pail when properly stored, sealed and unmixed.

## TECHNICAL DATA

## TYPICAL PHYSICAL PROPERTIES\*

Properties	ASTM Test Method	Typical Results
Membrane Thickness with Fleece, min.	D5147 Section 5	115 mils (2.9 mm)
Peak Load @ 73°F (23°C), ave.	D5147 Section 6	70 lbf/in (12.3 kN/m)
Elongation @ Peak Load, ave.	D5147 Section 6	42%
Peak Load @ 73°F (23°C), ave.	D412 Dumbell	90 lbf/in (15.8 kN/m)
Elongation @ Peak Load, ave.	D412 Dumbell	55%
Shore A Hardness, ave.	D2240	81
Water Absorption, Method I, 24h @ 73°F (23°C)	D570	0.41%
Water Absorption, Method I, 48h @ 122°F (50°C)	D570	1.57%
Low Temperature Flexibility	D5147 Section 11	-13°F (-25°C)
Dimensional Stability, max. movement	D5147 Section 10	0.063%
Tear Strength	D5147 Section 7	107 lbf (0.5 kN)

\*Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

## SYSTEM INFORMATION

### APPLICATION INSTRUCTIONS

### GENERAL

Although Liquid Flashing has a very low VOC content of 4.2 g/L, there is a strong odor. 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 and other means of ingress for odors and/or vapors into the building/structure during product application and cure.

### SURFACE PREPARATION

Grind concrete and masonry surfaces with diamond cut wheel to remove laitance and/or contaminants.

Clean and prepare metal surfaces to near white metal with an appropriate power tool. If power tools are not available, use abrasive paper with a grain grit size of 20 - 40 to remove all loose particles including paint flakes, rust, and contaminants.

Use abrasive paper with grain grit size of 80 - 100 to lightly sand rigid plastic surfaces.

Wipe metal and rigid plastic surfaces with Sika's Seam Cleaner and allow to dry.

After proper preparation, all surfaces shall be clean, dry, free of dirt, dust, debris, loose particles, loose paint, rust and other contaminants.

Clean the membrane a minimum of 12 in (305 mm) around the penetration using a non-solvent based cleaner such as Simple Green or Orange DEP.

After removing all loose particles and dust, prime wood and concrete surfaces with Liquid Flashing Primer. Refer to the Liquid Flashing Primer product data sheet for Liquid Flashing Catalyst dosage rate, mixing instructions and application procedures. Allow Liquid Flashing Primer to cure completely before applying Liquid Flashing. Liquid Flashing Primer is considered cured when it is dry to the touch.

Membrane around penetrations shall be secured on a minimum of two sides. For larger penetrations more securement shall be required.

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If a gap of more than 1/4 in (6.3 mm) exists between edge of horizontal membrane surface and vertical transition surface, the gap must be filled with Sikaflex-1a.

### **LIQUID FLASHING FLEECE**

Pre-cut vertical and horizontal pieces to fit around the penetration allowing for a 2 in (51 mm) overlap with adjoining pieces. Vertical flashing pieces must extend 2 in (51 mm) onto the roof membrane and should be a minimum of 8 in (203 mm) above the roof where possible. Horizontal flashing pieces must extend a minimum of 4 in (102 mm) beyond the leading edge of the penetration, or a minimum of 2 in (51 mm) beyond the edge of the fastening plate.

Once the edges of the fleece are determined, mark a line on the membrane 1/2 in (13 mm) beyond the edge of the fleece and apply painter's tape. This will accommodate the 1/2 in (13 mm) of non-reinforced Liquid Flashing needed to terminate to the membrane. With the tape in place, clean the membrane within the area using Sika Seam Cleaner, acetone, or methyl ethyl ketone (MEK) and wipe the penetration.

### **MIXING**

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.

After stirring, pour 1 liter of Liquid Flashing into a clean plastic container. Add 2 level tablespoons of Liquid Flashing Catalyst to Liquid Flashing Summer White or 4 level tablespoons to Liquid Flashing Winter White. Mix using a slow-speed mechanical mixer with a separate mixing paddle for two minutes (do not use mixing paddle after the addition of catalyst to mix open large container of Liquid Flashing).

The amount of Liquid Flashing Catalyst used may alter depending on ambient and surface temperatures, the values given are based on the mid-range temperatures to provide an approximate pot life of 10 - 15 minutes after mixing.

### **APPLICATION**

Using a small 1/2 in (13 mm) nap roller with rounded edges or 2 in (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 in (51 mm) onto the roof membrane. 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 in (51 mm) overlap between the vertical Liquid Flashing Fleece layers. Apply 55 mils (1.4 mm) of Liquid Flashing WW onto the penetration up to the finished flashing height and 4 in (102 mm) onto the roof membrane. Embed the pre-cut vertical flashing Liquid Flashing Fleece into the wet Liquid Flashing WW. Use the roller to eliminate wrinkles and air bubbles while completely saturating the Liquid Flashing Fleece. Overlap adjoining pieces of Liquid Flashing Fleece a minimum of 2 in (51 mm). Apply additional Liquid Flashing WW at the overlap between the Liquid Flashing Fleece layers.

Apply 55 mils (1.4 mm) of Liquid Flashing WW onto the roof membrane extending onto the painters tape. Embed the pre-cut horizontal flashing Liquid Flashing Fleece into the wet Liquid Flashing WW. Use the roller to eliminate wrinkles and air bubbles while completely saturating the Liquid Flashing Fleece. Overlap adjoining pieces of Liquid Flashing Fleece a minimum of 2 in (51 mm). Apply additional Liquid Flashing WW at the

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overlap between the Liquid Flashing Fleece layers.  
Apply 25 mils (0.6 mm) of Liquid Flashing WW over the entire penetration terminating at the finished flashing height on the vertical and onto the painters tape on the roof. Make sure the fleece is fully saturated without any dry spots. Remove the painters tape immediately after applying the Liquid Flashing.

Complex and irregular shapes such as nuts, bolts, etc. may require an additional 25 mil (0.6 mm) thick application of Liquid Flashing to ensure full coverage. Wait one hour before applying the additional coat.

**COVERAGE**

43 sq ft (4 sq m) per 2.6 gal (10 L) pail at 115 mil (2.9 mm) thickness

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**PRODUCT LIMITATIONS**

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- Must be mixed with Liquid Flashing Catalyst to induce curing of material.
- Use Liquid Flashing WW in temperature ranges of 23°F – 68°F (-5°C – 20°C). Substrate and ambient temperatures must be within these ranges for the material to cure properly.
- 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 at low flashing height conditions less than 4 in (101 mm).
- Liquid Flashing cannot be used as a patch.
- Liquid Flashing cannot be painted.
- Liquid Flashing cannot be used in waterproofing applications.
- Liquid Flashing is not resistant to oils, fats, and grease.

**AVAILABILITY**

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

**MAINTENANCE**

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

**WARRANTY**

As a Sika supplied accessory, Liquid Flashing WW is covered under Sika Corporation warranties up to twenty (20) years in duration.

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**SIKA CORPORATION – ROOFING****UNITED STATES**

100 Dan Road  
Canton, MA 02021  
800-451-2504 (p)  
781-828-5365 (f)  
[usa.sarnafil.sika.com](http://usa.sarnafil.sika.com)  
[webmaster.sarnafil@us.sika.com](mailto:webmaster.sarnafil@us.sika.com)

**SIKA CANADA INC.**

6915 Davand Drive  
Mississauga, ON L5T 1L5  
905-795-3177 (p)  
905-795-3192 (f)  
[can.sika.com](http://can.sika.com)  
[marketing.construction@ca.sika.com](mailto:marketing.construction@ca.sika.com)

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