



## **Technical Data Sheet**

# Enduris<sup>™</sup> Liquid Flashing

# Silicone Flashing and Seam Treatment

## **Product Description**

GE Silicones Enduris Liquid Flashing is a high performing silicone sealant for protection of seams, penetrations, and fasteners on various roofing substrates. Upon cure, Enduris Liquid Flashing forms a durable and weatherproof barrier that is highly resistant to degradation from UV and natural weathering.

## **Key Features and Typical Benefits**

#### Performance

- · Silicone Durability—Excellent long-term resistance of cured product to natural weathering including: extreme temperatures, ultraviolet radiation, rain and snow.
- · VOC Compliant—High solids solvent-free formulation that complies with California regulations.
- Ease of Use—Single-component material that can be applied with trowel, stiff brush or gloved hand, with sufficient open time for tooling before it cures.
- · High Build Formulation—Low sag.
- · Storage & Shelf Life—Enduris Liquid Flashing can be stored in unheated warehouses during the cooler months without the risk of freezing. Shelf life is 18 months from date of manufacture when properly stored.

#### Application

Enduris Liquid Flashing can be applied to itself as well as other roofing materials and substrates including: single ply membranes (TPO, PVC, EPDM, and CSPE), spray-applied polyurethane foam (SPF), metal, concrete and common parapet/coping materials. Asphaltic substrates such as modified bitumen, smooth BUR, and granulated cap sheet may require a bleed blocker basecoat.

## **Potential Applications**

NOTE: Enduris Liquid Flashing should not be considered for:

- · Use on pedestrian, deck or frequent traffic bearing surfaces
- Cold storage roofing application without vapor barrier, cryogenic tank applications or continuous water immersion services
- · Unprepared surfaces including but not limited to those that are wet, dusty, oily, mildewed, heavily chalked, blistered or otherwise structurally unsound.
- · Building materials that might bleed oil or solvents. These include, but are not limited to, certain vulcanized rubber products, tapes, failed sealants, some caulking compounds and asphaltic/mastic materials unless appropriate preparation or primers are used. Consult MPM technical services for primer recommendations.
- · Surfaces where adhesion has not been verified by testing.

#### **Precautions**

- · Inclement weather may negatively affect uncured Enduris Liquid Flashing by displacement of uncured material; therefore, application of sealant should not proceed if heavy rain, hail or snowfall is impending or expected within 24 hours of application.
- Enduris Liquid Flashing requires atmospheric moisture for propagation of cure thus it is not suitable for use in totally confined spaces.

## **Packaging**

Enduris Liquid Flashing is currently available in nominal 2 gallon plastic pails filled to 20 LBS - (9.08 KG) and 19 fl. oz. (562 ml) foil sausage packs.

#### Colors

Enduris Liquid Flashing is currently available as a stock color in white.



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## **Typical Physical Properties**

Typical physical property values of Enduris Liquid Flashing are set forth in the table below.

Property <sup>(1)</sup>	Value <sup>(2)</sup>	Test Method
Appearance	White	Visual
VOC	~34 g/L	EPA Method 24
Application Rate	300-400 g/min	E56
Specific Gravity	1.18-1.25	P15
Sag/Slump	1.5 inches (38 mm)	ASTM D2202
Skin-Over Time	5-10 minutes	WPSTM C-560
Tack Free Time	30-60 minutes	ASTM C679
Cure Time	3-4 days	1/4" (6 mm) depth of cure
Hardness (A) Type Indenter	20	ASTM D2240
Ultimate Tensile Strength	215 psi (1.52 MPa)	ASTM D412
Tensile at 50% Elongation	50 psi (0.358 MPa)	ASTM D412
Tensile at 100% Elongation	85 psi (0.593 MPa)	ASTM D412
Ultimate Elongation	250%	ASTM D412

- (1) Properties tested @ 72°F (24°C), 50% RH
- (2) Typical properties are average data and are not to be used as or to develop specifications.

# Installation and Application Considerations

### Surface Preparation

Surfaces to which Enduris Liquid Flashing is to be applied must be clean, dry, structurally sound and free of loose particles, dirt, dust, oil, frost, mildew and other contaminants. Damage to the underlying roof system, such as cracks, openings, and holes should be properly repaired prior to application. Saturated substrates must be removed and repaired appropriately. Proper adhesion to all existing roofing materials to be sealed should be tested prior to large scale application of the sealant. It is recommended that areas be cleaned, and Enduris Liquid Flashing be applied and adhesion tested to verify the effectiveness of the cleaning method and adhesion to the surface(s).

Surfaces not intended for sealant should be masked or covered.

## **Application Guidelines**

Apply Enduris Liquid Flashing to ensure a uniform build and thorough coverage. Enduris Liquid Flashing can typically be applied in one application. If applying multiple coats, allow adequate time between each application for the sealant to cure. Final cured thicknesses must be free of voids, pinholes, cracks or blisters.

## **Application Temperature**

Enduris Liquid Flashing can be applied throughout the year as long as the substrates being sealed are completely dry. Frost and/or moisture will interfere with adhesion. Lower temperatures will increase the skin over, tack free and ultimate cure time and may require 24 to 72 hours to cure. In cold weather, allow the sealant to cure before top coat application. Higher temperatures will accelerate the cure rate and decrease the open time of the sealant. Under summer conditions, time to cure before application of top coat over sealant may be as little as 1 hour. Do not apply Enduris Liquid Flashing when substrate surface temperatures exceed 176°F (80°C).

## **Application Equipment**

Enduris Liquid Flashing can be applied by trowel, stiff brush or gloved hand.

## Clean Up

Cleanup of equipment containing uncured material may be accomplished by cleaning with mineral spirits or toluene.

DO NOT USE water or alcohol based solvents.

Cured material can be removed from surfaces with a razor blade, or scrubbed off with steel wool or synthetic abrasive pads and solvent.



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#### **Technical Services**

Additional technical information, literature, laboratory testing and application engineering are available upon request. Any technical advice furnished by Momentive Performance Materials (MPM) or any representative of MPM concerning any use or application of any sealant is believed to be reliable but MPM makes no warranty, expressed or implied, of suitability for use in any application for which such advice is furnished.

#### Limitations

Customers must evaluate MPM products and make their own determination as to fitness of use in their particular applications.

#### **Patent Status**

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

## **Product Safety, Handling and Storage**

Customers should review the latest Safety Data Sheet (SDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, emergency service contact information, and any special storage conditions required for safety. MPM maintains an around-the-clock emergency service for its products. SDS are available at <a href="https://www.gesilicones.com">www.gesilicones.com</a> or, upon request, from any MPM representative. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center. Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

Enduris Liquid Flashing should be stored in unopened containers and protected from exposure to direct sunlight and high heat. Do not open containers until ready for use and store containers below 109°F (43°C) to maintain full shelf life. Enduris Liquid Flashing can generally be stored in unheated warehouses during the cooler months without the risk of freezing.

Enduris Liquid Flashing reacts with atmospheric moisture to cure. Once containers are open and exposed to the atmosphere, a skin will form on the material over time. The formation of skin will be negligible in winter months but can form quickly (minutes) under hot and humid summer conditions. Cured skin that has formed on the top of the material should be removed or screened. Take appropriate precautions to cover open containers during use.

Enduris Liquid Flashing should be applied as received; dilution with a solvent is not recommended. If settling in the package has occurred, stir or shake the material prior to use.



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#### **Customer Service Centers**

For additional information, please contact our Customer Service Team

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