

Elemax™ 5000

Liquid Flashing

Product Description

Elemax 5000 Liquid Flashing is a trowel-grade, one-component, solvent free, low-sag silicone liquid flashing material. It is used in the Elemax silicone air and water barrier (AWB) system to flash rough openings, seams, gaps, fastener heads, board joints, penetrations, and transitions.

Key Features and Typical Benefits

- **Seamless and Monolithic Application:** Liquid-applied flashing allows for a seamless, monolithic application when used as part of the Elemax silicone AWB system.
- **Compatibility:** Rough openings flashed with Elemax 5000 Liquid Flashing provide a suitable and sound surface for adhesion and compatibility with common silicone installation sealants used around doors and windows.

Performance

- **Silicone Durability** – Cured silicone rubber exhibits excellent long-term resistance to natural weathering including: extreme temperatures, ultraviolet radiation, rain and snow, with negligible change in elasticity.
- **Elastomeric** – Cures to form a permanently flexible continuous membrane virtually unaffected by temperature extremes.
- **Self-Sealing** – Passes water penetration standards for nails and fasteners.
- **Vapor Permeable** – Allows moisture vapor to pass yet prohibits the passage of liquid water. Thus making the Elemax silicone AWB system vapor permeable even at rough openings.

Application

- **Primerless Adhesion** – Bonds strongly to many typical substrates without the need of a primer.
- **All Season Application** - Can be applied in cold temperatures allowing for work to continue through winter months.

Compliance

- **AMAA 714** - Specification for Liquid Applied Flashing used to create a water-resistive seal around exterior wall openings in buildings.

Potential Applications

Elemax 5000 Liquid Flashing is commonly used to seal joints, seams, gaps, over/under-driven fastener heads, flashing, treat rough openings, inside/outside corners, and for adhering transition materials such as UltraSpan™ UST/USM molded strips and corners.

Packaging

Elemax 5000 Liquid Flashing is currently available in the following configurations:

- 2 Gallon Pail
- 20 fl oz (591.5 ml) foil sausage packs

Colors

Elemax 5000 Liquid Flashing is currently available in black and gray.

Installation

Refer to Elemax 2600 AWB Coating current specifications, installation guidelines and details for application instructions in conjunction with this document.

USAGE RATE - Elemax 5000 Liquid Flashing

When used for sheathing joint treatment, apply 20-40 mils (508-1016 μ) thick troweled to nominal 1-1/2" (38 mm) width centered on joint. The following calculated estimates do not take into consideration factors such as: joint gap width, substrate texture, material waste, etc. Values are based on maximum yield at 20 mil (508 μ) thickness:

- One sausage foil yields approximately 110 lf (33 m)
- One 2-gallon pail yields approximately 1345 lf (410 m)

When used for rough opening treatment or general detailing, apply at 20-40 mils (508-1016 μ) thick x 6" (152 mm) width trowel application. The following calculated estimates do not take into consideration factors such as: Construction geometry, substrate texture, material waste, etc. Values based on maximum yield at 20 mil (508 μ) thickness:

- One sausage foil yields approximately 28 lf (9 m)
- One 2-gallon pail yields approximately 340 lf (104 m)

Typical Physical Properties

Typical physical properties of Elemax 5000 Liquid Flashing as supplied and cured are set forth in the tables below.

Typical Properties - Supplied

Property	Value ⁽¹⁾	Test Method
Consistency	Paste	
Polymer	100% silicone	
VOC	20 g/l	WPSTM C1454
Working Life (tooling time)	30-40 minutes	
Tack Free Time	3-4 hours (@ 72°F, 50% RH)	ASTM C679

Typical Properties - Cured

Property	Value ⁽¹⁾	Test Method
Hardness, Durometer	24-26	ASTM D2240
Ultimate Tensile Strength	>300 psi (2.07 MPa)	ASTM D412
Ultimate Elongation	>650%	ASTM D412
Peel Strength (average) (21-day cure @ 75°F (21°C) 50% RH)	>40 pli	ASTM C794
Joint Movement Capability	±50%	ASTM C719
Application Temperature Range	0°F to +122°F (-18°C to 50°C)	
Service Temperature Range (after cure)	-55°F to +300°F (-48°C to 149°C)	
Weathering and U.V. Resistance	Excellent	MPM 30 yr. study
Full Cure	1-2 days (varies with temperature and RH)	

ICC-ES AC212: Acceptance Criteria for Water-Resistive Coatings used as Water-Resistant Barrier over Exterior Sheathing

Sequential Testing - Structural, Racking, Restrained Environmental Conditioning and Water Penetration		
1. Structural	No cracking within the field of the panel, substrate joints and at interface of flashing	ASTM E1233 Procedure A
2. Racking	No cracking within the field of the panel, substrate joints and at interface of flashing	ASTM E72
3. Restrained Environmental Conditioning	No cracking within the field of the panel, substrate joints and at interface of flashing	ICC-ES AC212
4. Water Penetration	No visible water penetration after Structural, Racking, Retrained Environmental Conditioning: Tested for 15 min. at 2.86 psf (137 Pa)	ASTM E331
Sequential Testing - Weathering		
1. UV Light Exposure		ICC-ES AC212/ICC-ES AC212
2. Accelerated Aging		ICC-ES AC212
3. Hydrostatic Pressure Test	No water penetration after UV exposure and accelerated aging: Tested for 5 hours with 21.7 in (55 cm) of hydrostatic head	AATCC 127
Freeze-Thaw	No cracking, checking, crazing, erosion, delamination or other deleterious effects	ICC-AC212 ASTM E2485 Method B
Water Resistance	No deleterious effects after 14 day exposure.	ASTM D2247
Tensile Bond	>15 psi (105 kPa)	ASTM C297

(1) Typical properties are average data and are not to be used as or to develop specifications.

Technical Services

For additional technical resources, please contact your local customer service center. (See Customer Service Centers section herein for contact information.) Any technical advice furnished by Momentive Performance Materials (MPM) or any representative of MPM concerning any use or application of any MPM product 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 the fitness of use in their particular applications.

Elemax 5000 Liquid Flashing should not be considered for:

- Underwater or other applications where the product will be in continuous contact with water.
- Installation on wet, damp, frozen or contaminated surfaces.
- Application to excessively basic or acidic substrates.
- In designs where the silicone is encapsulated and without access to atmospheric moisture (this material requires atmospheric moisture to cure from paste to rubber).

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 considering the use of this product should review the latest Safety Data Sheet and label for product safety information, handling instructions, personal protective equipment if necessary, and any special storage conditions required. Safety Data Sheets are available at www.siliconesforbuilding.com or, upon request from any MPM representative. Use of other materials in conjunction with MPM sealant products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

Store Elemax 5000 Liquid Flashing below 90°F (32°C).

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