



Elemax* 5000

Liquid Flashing

Product Description

GE Elemax 5000 Liquid Flashing is a 100% silicone, one-component, solvent free, low-sag, Air and Water- Resistive Barrier (AWB) flashing.

Key Features and Typical Benefits

- **Primerless adhesion:** Can be trowel-applied, even over cut drywall, to-flash windows and other rough openings, seams, gaps and transitions.
- **Seamless and monolithic air barrier:** Liquid-applied flashing allows for a seamless, monolithic air barrier when used as part of the Elemax silicone AWB system.
- **Simple installation:** Elemax 5000 Liquid Flashing provides easy application and compatibility with adjacent building components.

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

Application

- **Primerless Adhesion**—Bonds strongly to many typical substrates without the need of a primer
- **Fast Cure**—Provides rapid adhesion to many substrates

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 GE 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.

Installation

Refer to Elemax 2600 AWB current specifications, installation guidelines and details for application instructions.

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, or other factors. Values are based on maximum yield at 20 mil (508 μ) thickness:

- One sausage foil yields approximately 100 lf (30 m)
- One 2-gallon pail yields approximately 1288 lf (392 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, or other factors. Values based on maximum yield at 20 mil (508 μ) thickness:

- One sausage foil yields approximately 25 lf (8 m)
- One 2-gallon pail yields approximately 322 lf (98 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 |
| Work Life (tooling time) | 30-40 minutes | |
| Tack Free Time | 3-4 hours (@ 72°F, 50% RH) | ASTM C679 |

Typical Properties—Cured

| | | |
|---|---|-----------------|
| 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 +250°F (-48°C to 121°C) | |
| Weathering and U.V. Resistance | Excellent | GE 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, Restrained Environmental Conditioning: Tested for 15 min. at 2.86 psf (137 Pa) | ASTM E331 |

Sequential Testing - Weathering

| | | |
|------------------------------|---|----------------------------------|
| 1. UV Light Exposure | | 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 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.gesilicones.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.

Customer Service Centers

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|---|--|
| Americas | +1 800 295 2392 +1 704 805 6946 Email: 4information@momentive.com |
| Europe, Middle East, Africa, and India | +00 800 4321 1000 +40 212 044229 Email: 4information.eu@momentive.com |
| Asia Pacific | Japan 0120 975 400 +81 276 20 6182 China +800 820 0202 +86 21 3860 4892 All APAC +60 3 9206 1543 Email: 4information.ap@momentive.com |
| Visit us at www.gesilicones.com | |

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