



# Elemax™ 2600

## Silicone Air and Water-resistive Barrier Coating

### Product Description

GE Elemax 2600 silicone air and water-resistive barrier (AWB) is a solvent free, fluid-applied, 100% silicone coating for AWB applications to coat and seal above-grade wall assemblies.

Elemax 2600 silicone AWB coating provides long-term air and water protection from a variety of elements: temperature extremes, sunlight / UV radiation, rain and snow.

### Key Features and Typical Benefits

- **Building Code Compliant**—ICC ESR-3983 evaluation report confirms compliance with IBC, IRC, IECC and green code(s) requirements for use as both an air barrier and a water resistive barrier.
- **Seamless, Monolithic Air Barrier**—Fluid application of the all silicone product / system creates a seamless, monolithic air barrier.
- **Simple Installation**—Straightforward system design, easy application and compatibility with adjacent building components eases installation.

### Performance

- **Reduced Energy Consumption**—Elemax AWB systems control the flow of air and water through the building envelope and create a contiguous barrier that can reduce energy consumption in a building as much as 35% and guard against water-related issues such as mold, rot and rust.
- **100% Silicone Durability**—Long-term resistance to natural weathering and extreme temperatures with negligible change in elasticity, for sustained performance during the life of the building.
- **UV Resistant**—Exposure for 20+ years without measurable change in properties or performance. Excellent product for use behind open joint and ventilated rain screen claddings.
- **Self-sealing**—Passes water penetration standards for nails and fasteners when tested at system film thickness. Fastener self-sealing ensures that the AWB performs optimally, after the building is fully clad.
- **Fire Characteristics**—NFPA 285: Pass- Acceptable for use in multiple wall assemblies. Meets 2015 IBC exemptions for water-resistive barriers. ASTM E84: Class A Flame Spread and Smoke Generation.

- **Elastomeric**—Cures to form a permanently flexible continuous membrane virtually unaffected by temperature extremes.

### Application

- **Seamless, breathable membrane**—Prevents water and air from entering the building, while allowing moisture vapor to escape.
- **Simple One-coat Application**—Elemax 2600 silicone AWB coating can be applied by spray, power roller or brush, and saves labor cost, resulting in a high value versus installed cost.
- **Primerless Adhesion**—Bonds strongly to many typical substrates without the need of a primer.
- **Extended Temperature Range**—Application range of 0°F to 150°F (-18°C to 66°C) and in-use temperature range of -40°F to 300°F (-40°C to 149°C) for any cladding / wall assembly design. Viscosity of product is minimally affected by temperature and does not require heating in cold climates.
- **Rain Ready**—Can be exposed to a medium to heavy rain in as little as 30 minutes.
- **Fast Cure**—For quick re-coat time and ease of touch-up.
- **Application to Various Substrates**—Elemax 2600 silicone AWB coating can be installed over various exterior wall substrates including poured concrete, CMU, glass mat gypsum sheathing, cement-board, plywood, OSB and exterior gypsum sheathing.
- **Silicone Compatibility**—Compatible with windows, doors, joints and features sealed using silicone.
- **Solvent Free**—Low VOC formula; **Clean Air Gold** certification states conformance to ANSI/ BIFMA e3 standard credits 7.6.1, 7.6.2 and/or credit 7.6.3, which includes California Department of Public Health (CDPH) Standard Method v1.2 01350 (2017), as well as conformance to low-emitting materials for WELL and LEED.



### Elemax AWB System

The following GE components comprise the 100% silicone air and water barrier system:

#### Air and Water Barrier Components:

- GE Elemax 2600 silicone AWB coating—Fluid applied 100% silicone membrane.
- GE Elemax 5000 Liquid Flashing—Non-sag 100% silicone sealants for joints, seams, gaps, flashing and for adhering transition materials such as GE UltraSpan™ silicone transition strips. The following is a list of additional acceptable GE sealants that may be used:
  - GE SCS2000 SilPruf™ silicone sealant
  - GE SCS2700 SilPruf LM low modulus silicone sealant
  - GE SCS9000 SilPruf NB non-staining silicone sealant
  - GE SWS silicone weathersealing sealant
- GE UltraSpan UST2200 silicone transition sheets, GE UltraSpan US1100 silicone transition strips, and GE UltraSpan USM pre-cured silicone molded corners may also be used. UltraSpan 100% silicone heat cured rubber can be used for detailing and transitioning across large gaps, expansion joints, drift joints, around penetrations and changes in plane, etc.
- GE RF100 reinforcing fabric—100% polyester spun-laced reinforcing fabric used to treat rough openings, penetrations, inside / outside corners, flashing, transitions, changes in plane, and more. RF100 reinforcing fabric can be used to span static gaps up to 1/2" (13 mm).
- GE Elemax SS Flashing—Stainless steel faced self-adhering membrane with a butyl adhesive that can be used as a throughwall flashing, transition membrane, detail flashing, curtain wall perimeter flashing, window and door pan, jamb closure flashing and roof to parapet flashing.

### Potential Applications

Elemax 2600 silicone AWB coating is an excellent product to consider as a long term barrier against the passage of air and water. This product is compatible with silicone materials used to seal and glaze windows, doors, joints and other façade features. In addition, most silicone sealants will bond to cured Elemax 2600 silicone AWB coating, alleviating adhesion concerns at transitions from exterior wall elements to the air and water resistive barrier.

### Packaging

Elemax 2600 silicone AWB coating is currently available in the following configurations:

- 5 gallon plastic pails (5-gal [18.9 L] net)
- 55 gallon drums (50-gal [189 L] net)

### Colors

Elemax 2600 silicone AWB coating is currently available as a stock color in black. Grey and white may be available upon request. Please contact your MPM sales representative for more details.

### Typical Physical Properties

Typical physical property values of Elemax 2600 silicone air and water-resistive silicone barrier coating as supplied and cured are set forth in the tables below.

#### Typical Properties – Supplied

Property	Value <sup>(1)</sup>	Test Method
Polymer	100% silicone	
Consistency	Pourable Liquid	
Color	Black	
VOC	<24 g/l	EPA Method 24
Viscosity	~25,000 centipoise	ASTM D2196, Method A
Solids Content, % by volume	90%	Modified ASTM D2697

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



**Typical Physical Properties—continued**

Typical Properties – Cured State at 17(430 μ) mils DFT (applied at 19 (480 μ) mils wet)

Property	Value <sup>(1)</sup>	Test Method
Air Permeance – tested at 1.57 psf (75 Pa)	0.00004 cfm/ft <sup>2</sup> (0.0002 L/s·m <sup>2</sup> )	ASTM E2178
	0.00008 cfm/ft <sup>2</sup> (0.0004 L/s·m <sup>2</sup> )	CAN/ULC-741
Assembly Air Leakage - tested at 1.57 psf (75 Pa)	0.0002 cfm/ft <sup>2</sup> (0.0009 L/s·m <sup>2</sup> )	ASTM E2357
	0.0004 cfm/ft <sup>2</sup> (0.0019 L/s·m <sup>2</sup> ) Class A1	CAN/ULC-742
Water Vapor Permeance	10.5 perms @ 17 mils (430 μ) DFT	ASTM E96 Procedure BW (Inverted Water Method)
	10.2 perms @ 17 mils (430 μ) DFT	ASTM E96 Procedure B (Water Method)
	7.9 perms @ 17 mils (430 μ) DFT	ASTM E96 Procedure A (Desiccant Method)
Water Penetration	No water penetration observed after 15 minutes @ 62.5 psf (2993 Pa)	ASTM E331
Resistance to Wind Driven Rain	Pass: No visual leaks or moisture weight gain observed after 24 hrs @ 26 psf (1245 Pa)	ASTM D6904
UV & Weathering Resistance	No degradation after 5000 hours	ASTM G154
Self Sealability around Nails	Pass	ASTM D1970
Crack Bridging Ability ( <sup>1</sup> / <sub>16</sub> " or 1.5 mm)	Pass	ASTM C1305
Mildew Resistance	0 - No growth	ASTM D5590
Application Temperature Range	0°F to 150°F (-18°C to 66°C)	
Service Temperature Range	-40°F to +300°F (-40°C to 149°C)	
Pull of Strength (concrete)	126 psi (0.87 MPa)	ASTM D4541
Pull of Strength (fiberglass mat faced gypsum sheathing)	44 psi (0.30 MPa) <sup>(2)</sup>	ASTM D4541
Tensile Strength	204 psi (1.41 MPa)	ASTM D412 <sup>(3)</sup>
Elongation	542%	ASTM D412 <sup>(3)</sup>
Cure Time, complete	1-2 days	Varies with Temp & RH
Recoat Time	<2 hours	Varies with Temp & RH
Multi-Story Wall Assembly Burn Test	Passed in assembly tested and acceptable for use in various wall assemblies per engineering analysis	NFPA 285
Surface Burning Characteristics	Flame Spread: 10 Smoke Developed: 185 NFPA Class A, UBC Class 1	ASTM E84
Oxygen Consumption (Cone) Calorimeter	Effective Heat of Combustion: 4.6 MJ/kg Peak Heat Release Rate 52.7 kW/m <sup>2</sup> Total Heat Release: 7.55 MJ/m <sup>2</sup>	ASTM E1354

**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.  
 (2) Full strength of silicone not realized due to failure of fiberglass mat / sheathing substrate prior to coating failure.  
 (3) Samples were prepared per ASTM D2370 and tested in accordance to ASTM D412.



### Limitations

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

Elemax 2600 silicone AWB coating should not be considered for:

- Below-grade applications.
- Wet, frozen or dirty/contaminated surfaces.
- Application when it is raining or if inclement weather is imminent or likely within two (2) hours.

### 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.siliconeforbuilding.com](http://www.siliconeforbuilding.com) or, upon request, from any MPM representative. Use of other materials in conjunction with MPM sealants products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

### Handling and Storage

- Do not open containers until ready for use.
- Keep containers tightly closed and the plastic liner pressed closely to the material when not in use. Elemax 2600 silicone AWB coating reacts with atmospheric moisture to propagate the curing process. 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 colder months but can form quickly (in minutes) under hot and humid conditions. Cured product that has formed on the top of the material must be removed or screened from the bulk material as it may contribute to pump clogging.
- Elemax 2600 silicone AWB coating has a shelf life of 18 months from date of manufacture when stored accordingly in original unopened containers.
- Store Elemax 2600 silicone AWB coating below 109°F (43°C).
- The coating will not freeze. Unheated storage in cold temperatures is acceptable.
- Storing uncured coating in elevated temperatures may lead to a decrease the effective life of the material. Avoid storage in direct sunlight for long periods.





### Customer Service Centers

<b>Americas</b>	+1 800 295 2392 +1 704 805 6946 Email: commercial.services@momentive.com
<b>Europe, Middle East, Africa, and India</b>	+00 800 4321 1000 +40 212 044229 Email: 4information.eu@momentive.com
<b>Asia Pacific</b>	<b>Japan</b> 0120 975 400 +81 276 20 6182  <b>China</b> +800 820 0202 +86 21 3860 4892  <b>All APAC</b> +60 3 9206 1543  Email: 4information.ap@momentive.com
<b>Visit us at <a href="http://www.siliconeforbuilding.com">www.siliconeforbuilding.com</a></b>	

THE MATERIALS, PRODUCTS AND SERVICES OF MOMENTIVE PERFORMANCE MATERIALS INC. AND ITS SUBSIDIARIES AND AFFILIATES (COLLECTIVELY "SUPPLIER"), ARE SOLD SUBJECT TO SUPPLIER'S STANDARD CONDITIONS OF SALE, WHICH ARE INCLUDED IN THE APPLICABLE DISTRIBUTOR OR OTHER SALES AGREEMENT, PRINTED ON THE BACK OF ORDER ACKNOWLEDGMENTS AND INVOICES, AND AVAILABLE UPON REQUEST. ALTHOUGH ANY INFORMATION, RECOMMENDATIONS, OR ADVICE CONTAINED HEREIN IS GIVEN IN GOOD FAITH, SUPPLIER MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, (i) THAT THE RESULTS DESCRIBED HEREIN WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (ii) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN INCORPORATING ITS PRODUCTS, MATERIALS, SERVICES, RECOMMENDATIONS OR ADVICE. EXCEPT AS PROVIDED IN SUPPLIER'S STANDARD CONDITIONS OF SALE, SUPPLIER AND ITS REPRESENTATIVES SHALL IN NO EVENT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS MATERIALS, PRODUCTS OR SERVICES DESCRIBE HEREIN. Each user bears full responsibility for making its own determination as to the suitability of Supplier's materials, services, recommendations, or advice for its own particular use. Each user must identify and perform all tests and analyses necessary to assure that its finished parts incorporating Supplier's products, materials, or services will be safe and suitable for use under end-use conditions. Nothing in this or any other document, nor any oral recommendation or advice, shall be deemed to alter, vary, supersede, or waive any provision of Supplier's standard Conditions of Sale or this Disclaimer, unless any such modification is specifically agreed to in a writing signed by Supplier. No statement contained herein concerning a possible or suggested use of any material, product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right of Supplier covering such use or design, or as a recommendation for the use of such material, product, service or design in the infringement of any patent or other intellectual property right.

GE is a registered trademark of General Electric Company and is used under license by Momentive Performance Materials Inc.

The use of the "™" symbol designates registered or unregistered trademarks of Momentive Performance Materials Inc. or its affiliated companies.

Copyright 2018-2020 Momentive Performance Materials Inc. All rights reserved.

**[siliconeforbuilding.com](http://siliconeforbuilding.com)**