

# SEC2400 SilShield\*

## silicone architectural coating

### Product Description

GE SilShield SEC2400 is a high solids, silicone elastomeric coating that is an excellent candidate for use in horizontal and vertical above-grade waterproofing applications. SEC2400 cures to a durable, watertight and weatherproof barrier that is extremely resistant to color fade, chalking or degradation from natural weathering.

### Typical Performance Properties

#### Performance

- **Silicone Durability** - Provides excellent long-term resistance to ultraviolet radiation, natural weathering, humidity, high and low temperatures with negligible change in color or elasticity.
- **Silicone Compatibility** - Compatible with all GE silicone neutral-cure sealants and pre-cured silicone weatherstrip.
- **System Warranty** - Achieve a complete warrantable system when used with GE UltraSpan\* precured weather-strip and the GE SilPruf\* sealants.
- **Breathable** - Cured SEC2400 is vapor permeable.

#### Application

- **Primerless Adhesion** - To many substrates including: glass, concrete, stucco, masonry, urethane foam, wood, copper, EIFS, aluminum and many painted surfaces.
- **Fast Cure** - Achieves skin-over in under 30 minutes and is tack free in less than 2 hours under typical conditions.
- **Ease of Application** - Apply with brush, roller, or airless spray. Product body helps prevent sagging.
- **Low Temperature Storage** - SEC2400 can be stored during colder months without the risk of freezing.

### Aesthetics

- **Excellent Color Retention** - Strongly resists chalking or fading due to natural weathering and UV exposure, even dark colors.
- **Easily Cleaned** - Surface is easily cleaned by pressure washing or with a soap and water mixture.
- **Color Flexibility** - Available in nearly unlimited custom colors or select from the 70 pre-matched colors in the fan deck.

### Basic Uses

SEC2400 is an architectural mastic coating that can be used as a waterproofing coating in vertical, horizontal and roof applications to cover holes and minor cracks and to conceal surface irregularities. SEC2400 can be used in non-traffic horizontal and roof applications. Primerless adhesion has been attained on many substrates including: concrete, stucco, masonry, urethane foam, wood, copper, EIFS, aluminum and many painted surfaces. Adhesion should always be verified by testing a small area prior to the beginning of the project.

### Customer Evaluation

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

### Packaging

SilShield SEC2400 silicone elastomeric coating is available in 52-lb (23.6 kg) approx. 5.1-gal net steel pails.

### Colors

SEC2400 is made to order and tinted at the manufacturing facility. Colors can be selected from a pre-matched color fan deck or custom color matching can be performed.

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### Limitations

SEC2400 is not recommended for use on walking surfaces and may contribute to a slipping hazard, particularly when wet. SEC2400 is also not recommended for use in locations subject to continuous water immersion. It may be difficult to achieve adhesion of non-silicone paints to overcoat SEC2400. It should not be applied to:

- Concrete surfaces which contain residue from oil or other bond breaking contaminants that may interfere with adhesion.
- Building materials which might bleed oil or solvents. These include but are not limited to: impregnated wood and certain vulcanized rubber gaskets or foams, tapes or failed sealants and caulking compounds. Compatibility testing is available.
- Unprepared surfaces including but not limited to those which are wet, dusty, oily, mildewed, heavily chalked, blistered or otherwise structurally unsound.
- Surfaces where adhesion performance and coating appearance has not been verified by adequate testing. A mock-up is recommended to verify coverage rates and hiding power on any given substrate(s).

### Technical Services

Additional technical information and literature may be available from MPM Laboratory facilities and application engineering is available upon request from MPM. 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.

### Specifications

Typical property values of SEC2400 as supplied and cured are set forth in the tables below. Typical product data values should not be used as specifications. Assistance with specifications is available by contacting MPM.

#### Typical Properties – Supplied

Property	Value	Test Method
Specific Gravity (lb/gal)	10.12 (1.21 g/ml)	WPSTM P-15
Density (lb/gal)	10.45 (1.25 g/ml)	WPSTM P-14
Solids Content, % by volume	66	WPSTM C-19
Solids Content, % by weight	80	WPSTM C-19
Tack Free Time, hours	<2	WPSTM E-86
Skin Over Time, mins	30	
Viscosity, centipoises	9000	WPSTM C-560
Volatile Organic Content (VOC, g/L)	238	EPA Meth. 24

#### Typical Properties – Cured<sup>(1)</sup>

Property	Value	Test Method
Tensile Strength, psi	166	ASTM D-412
Elongation %	323	ASTM D-412
Application Temp. Range	40-120°F (5-39°C)	
Coverage Rate	106 ft <sup>2</sup>	Gallon max.
Vapor Permeance (10 mils DFT)	8.40 Perms	ASTM D-1653

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

### Applicable Standards

**SEC2400 carries SWRI validation for ASTM D6904 resistance to wind driven rain, ASTM E96-moisture vapor transmission, ASTM D412-tensile properties, ASTM C1305-crack bridging ability, ASTM D2697-solids content by volume.**

### Installation

#### Project Mock-Up

Prior to beginning a coating project, it is highly recommended that the installer perform a mock-up, or test patch on actual project substrates. The mock-up can be used:

- To verify that acceptable adhesion is attained with the proposed cleaning procedures. For warranty purposes, adhesion testing must be performed on all substrates to be coated.
- To identify coverage rates based on the actual project substrates and conditions. Coverage rates may vary between first and second coats, depending upon the specific substrates.
- For appearance and color acceptance.
- To verify that sufficient hiding power is attained using the combination of new coating over existing substrate(s). (This is especially applicable when coating over darker substrates with lighter colors.)

#### Surface Preparation

Surfaces to be coated must be clean, dry, structurally sound and free of loose particles, dirt, dust, rust, oil, frost, mildew and other contaminants. For most applications, cleaning with a high-pressure water wash should prove sufficient. Allow sufficient time after cleaning for the substrate to dry completely prior to the application of SEC2400 as coating a damp or wet surface may interfere with adhesion.

- Cracks and holes must be filled if greater than 1.59mm (1/16 inch) wide. Cracks and holes can be filled with GE SilPruf\* silicone sealants.
- For masonry surfaces, if efflorescence and chalk is present, the surface may need to be treated with an efflorescence inhibiting masonry primer. Testing is recommended.
- Existing non-adhered painted surfaces should be removed back to the original surface or to a sound condition, and cleaned as above prior to coating.
- New concrete and masonry should be allowed to cure for a minimum of 30 days after which the surface should be cleaned by wire brushing loose mortar and then cleaned via pressure washing.
- Non-porous substrates (steel, aluminum, galvanized metal) can be cleaned with an appropriate solvent if necessary.

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Issued to: **Momentive Performance Materials**  
Product: **SilShield SEC2400 Silicone Elastometric Coating**

**ASTM D 6904:** Resistance to Wind Driven Rain  
Weight Gain: 0 oz. Water Leaks: none **Pass ✓**

**ASTM E 96:** Moisture Vapor Transmission  
WVT (grains/ft<sup>2</sup>·h) 3.44 oz. Perms (grains/ft<sup>2</sup>·h.in.Hg): 8.40 **Pass ✓**

**ASTM D 412:** Tensile Properties  
Tensile Strength: 439.6 psi Elongation: 690% **Pass ✓**

**ASTM C 1305:** Cracking Bridging Ability  
Results: No cracking **Pass ✓**

**ASTM D 2697:** Solids Content by Volume  
Results: 65.3% Density: 10.65 lbs/gal. **Pass ✓**

Validation Date: 9/6/11 – 9/5/16

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### Application Temperature and Humidity

Ambient temperature should be above 40°F (5°C). Surface temperature of the substrate to be coated should be below 120°F (49°C).

### Film Thickness

On vertical surfaces, SilShield SEC2400 silicone elastomeric coating should be applied in 2-coats yielding minimum Dry Film Thickness (DFT) of 10 mils (254 microns). On smooth, non-textured, non-porous surfaces, each coat should be applied at 8 wet mils to obtain a minimum DFT of 5 mils (127 microns). Keep in mind during the curing process the DFT is approximately 30% less than the applied wet film thickness. Subsequent coats may be applied when the previous coat is dry to the touch or is firm enough to resist disturbance when rolling or brushing (typically less than 2 hours for 6-8 mils, longer time may be required for thicker coats). On horizontal surfaces, SEC2400 may be applied in one coat up to a DFT of 20 mils (508 microns).

### Coverage

Maximum possible coverage rate at 10 mils (254 microns) DFT is 106 ft<sup>2</sup> (9.8 m<sup>2</sup>)/gallon. Actual coverage rates should be verified using a mockup and will vary based on substrate texture, porosity, application method, applicator and other factors. Final coating DFT thicknesses less than 10 mils (254 microns) are not warrantable. Thicknesses less than 10 mils (254 microns) may result in inadequate performance, nonuniform color and diminished hiding power.

### Substrate Surface Roughness Examples



Smooth

Medium

Coarse

### Application Methods

SilShield SEC2400 silicone elastomeric coating can be applied using rollers, power rollers, brushes, or power sprayers. Rollers should be solvent resistant and have a nap of 3/4 to 1 1/2-inch (19 mm to 38 mm) in order to achieve the recommended coverage. Please contact a technical representative for power roller and power spraying recommendations. Clean-up of equipment containing uncured material may be accomplished by flushing with mineral spirits. SEC2400 should not be left in pumping equipment and hoses for prolonged periods of time unless all hoses, piping connections and pump seals are vapor locked and lined/sealed with TEFLON® or similar treatment. SEC2400 cures by reacting with moisture so equipment without adequate lining and seals will transmit sufficient moisture vapor to gradually form cured material on hose walls and connections, resulting in increased operating pressures and material flow restrictions.

TEFLON is a registered trademark of DuPont.

### 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 Material Safety Data Sheet and label for product safety information, handling instructions, personal protective equipment if necessary, and any special storage conditions required. Material Safety Data Sheets are available at [www.ge.com/silicones](http://www.ge.com/silicones) or, upon request, from any Momentive Performance Material representative. Use of other materials in conjunction with Momentive Performance Materials' sealants products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

## SEC2400 SilShield\* silicone architectural coating

### CUSTOMER SERVICE CENTERS

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