

Silicone Coatings

**Dow Corning® AllGuard Silicone Elastomeric Coating**

**FEATURES**

- Provides long-term waterproofing protection
- Maintains water protection properties even when exposed to sunlight, rain, snow or temperature extremes
- Available in 55 standard colors and unlimited custom colors

**COMPOSITION**

- One-component, pigmented, water-based silicone elastomer

**Water-based silicone elastomer for waterproofing above-grade exterior masonry substrates**

**APPLICATIONS**

*Dow Corning® AllGuard Silicone Elastomeric Coating* is designed to waterproof above-grade exterior masonry substrates, such as concrete block, fluted block, brick, stucco, synthetic stucco, poured concrete, precast concrete, exterior insulation finish systems (EIFS) and previously coated masonry substrates.

**TYPICAL PROPERTIES**

Specification Writers: Please contact your local Dow Corning sales office or your Global Dow Corning Connection before writing specifications on this product.

Method	Test	Unit	Result
<b>As Supplied</b>			
ASTM D 2369	Solids Content	percent by weight	58.6
		percent by volume	50.1
ASTM D 1475	Specific Gravity	lb/gal (kg/L)	9.64 (1.155)
ASTM D 2196	Viscosity <sup>1</sup>	cps (Pa·s)	63,000 (63)
ASTM D 1849	High Temperature Stability, (no change in viscosity)	days	>28
ASTM D 3960	Volatile Organic Content <sup>2</sup> (VOC)	lb/gal (g/L)	0.459 (<55)
<b>As Cured</b>			
ASTM D 2240	Durometer Hardness, Shore A	points	38
ASTM D 412	Tensile Strength	psi (MPa)	>145 (1.00)
ASTM D 412	Elongation	percent	600
ASTM D 1653	Permeance	English perms (ng/(m <sup>2</sup> ·Pa·s))	43.2 (2480)
ASTM D 1737	Room Temperature Flex, 1/8" mandrel		Pass
ASTM C 711	Low Temperature Flex, 1/4" mandrel		Pass
ASTM D 3274	Fungus Resistance		No growth
ASTM D 3273	Mold Resistance		No growth
TT-C-555B	Wind-Driven Rain <sup>3</sup> , 98 mph		Pass
NCHRP-244	Chloride Ion Intrusion, effectiveness	percent	90
TT-C-555B	Alkali Resistance		Good

<sup>1</sup>Brookfield HAV, spindle #3, 2 rpm.

<sup>2</sup>VOC reported includes minus water calculation of ASTM D 3960.

<sup>3</sup>Measured on coating system with two coats of *Dow Corning AllGuard Silicone Elastomeric Coating*.

**DESCRIPTION**

*Dow Corning AllGuard Silicone Elastomeric Coating* is a one-part, 100 percent water-based silicone elastomer supplied in 3 tint bases for pigmenting at distributor locations. The coating is typically applied in two coats over *Dow Corning® AllGuard*

Primer. The coating can be roller, brush or spray applied. It cures to form a flexible membrane that is impervious to water but has the ability to “breathe,” allowing water vapor to escape from inside the substrate. Its attractive matte finish minimizes brush and roller marks. The controlled

flow properties of the coating allow a continuous, even film to be applied, even on rough surfaces. Once cured, the coating forms a tough, flexible silicone rubber membrane. The coating provides long-term waterproofing protection, withstanding hurricane-force, wind-driven rain, normal movement imposed by seasonal thermal contraction and expansion, ultraviolet radiation and the elements. The coating maintains its water protection properties even when exposed to sunlight, rain, snow or temperature extremes.

Once pigmented, it is a ready-to-use material that can be applied between 5°C (40°F) and 38°C (100°F) to a clean, dry surface. The average drying time is 4 to 8 hours, depending upon temperature, humidity and wind conditions. *Dow Corning AllGuard Silicone Elastomeric Coating* will attain full adhesion and physical properties in 7 to 14 days.

*Dow Corning AllGuard Silicone Elastomeric Coating* is available in over 55 standard colors or can be custom colored to order.

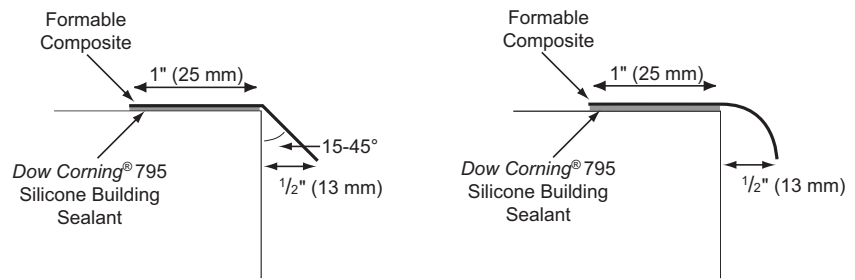
## HOW TO USE

When properly applied and cured, *Dow Corning AllGuard Silicone Elastomeric Coating* provides a fast, easy and effective method of keeping exterior above-grade surfaces waterproof.

## Design Considerations

In many building designs, areas such as ledges and windowsills allow airborne dirt and soot to accumulate. Surfaces exposed to concentrated water run-down may appear dirty or streaky over time and the coating may become difficult to clean. In those areas, drip edges should be installed before the coating is applied to rechannel water away from the surface to protect the long-term appearance of the facade. The success of a drip edge

**Figure 1. Drip Edge Design Considerations**



is achieved by moving the runoff water away from the wall onto the drip edge, creating a non-uniform runoff.

A drip edge can be fabricated from the same material as the windowsills or from other formable composites. The drip edge can be mechanically adhered to the substrate or attached with *Dow Corning® 795 Silicone Building Sealant* (see Figure 1).

## Surface Preparation

All surfaces to be coated with *Dow Corning AllGuard Silicone Elastomeric Coating* must be prepared as described in the most recent *Dow Corning AllGuard Silicone Elastomeric Coating Application and Maintenance Guide* (Form No. 62-617). The following is a short reference guide for surface preparations.

All surfaces must be clean and free of dirt, frost, dust, oil, grease, mold, fungus, efflorescence, laitance, peeling coating, chalking coating and any other foreign material. Pressure clean, wire brush or grind the wall surface to remove all of the above materials. Repair any damaged concrete, stucco, block, brick, masonry or EIFS. Repair cracks larger than 1/16-inch (1.6-mm) with a material that is compatible with the substrate and *Dow Corning AllGuard Silicone Elastomeric Coating*. *Dow Corning® 790 or 795 Silicone Building Sealant* or *Dow Corning® 791 Silicone Perimeter Sealant* can be used for crack repairs.

## Application

Gently hand-stir *Dow Corning AllGuard Silicone Elastomeric Coating* before using to ensure uniformity. Product should be used as supplied. Do not add water. The coating can be applied with a roller, brush or spray. The roller should have a 3/4-inch to 1 1/2-inch (19-mm to 38-mm) nap. The brush should have nylon bristles. Spray application can be by airless or air-assisted spray. When applying the coating with a roller, apply it in a fan pattern to achieve uniform millage. The actual application rate for the coating will vary depending on the texture and porosity of the substrate, but typically an application rate of 80 square feet per gallon (1.96 square meters per liter) on a smooth surface will yield the minimum 10-mil (0.25-mm) dry film thickness required. Two coats of *Dow Corning AllGuard Silicone Elastomeric Coating* are required to provide the 10-mil (0.25-mm) void-free dry film thickness recommended for waterproofing and required to obtain the warranty. *Dow Corning* recommends a mock-up be performed on the job site to more accurately estimate material usage requirements. A pinhole-free, void-free surface must be achieved. Refer to the *Dow Corning AllGuard Silicone Elastomeric Coating Application and Maintenance Guide* for more detailed information on application rates.

*Dow Corning AllGuard Silicone Elastomeric Coating* was developed to

obtain good adhesion to the substrate without the need of a primer. To verify that this adhesion is sufficient, field adhesion tests must be performed as described in the *Dow Corning AllGuard Silicone Elastomeric Coating Application and Maintenance Guide*. If adhesion does not meet requirements, a field adhesion test with primer should be performed. To obtain a project specific warranty, field adhesion testing, meeting the requirements, must be performed and documented. Surface adhesion tests on each type of substrate and each face of the structure must be field adhesion tested and acceptable per the *Dow Corning AllGuard Silicone Elastomeric Coating Application and Maintenance Guide*.

## Maintenance

Walls should be inspected at least once a year. If coating becomes damaged, repair damaged portion to maintain weatherproofing performance. Any touch-ups or repairs to the coating can be completed by applying *Dow Corning AllGuard Silicone Elastomeric Coating* to the clean, dry area in accordance to the recommendations in this data sheet and the *Dow Corning AllGuard Silicone Elastomeric Coating Application and Maintenance Guide*.

Accumulation of dirt or other contaminants deposited on the facade may cause a deterioration in visual appearance. Dow Corning recommends routine cleaning to minimize this accumulation, following these guidelines:

1. Abrasive cleaners and cleaning equipment should never be used.
2. Clean using pressurized water and a basic cleaning agent such as TSP (trisodium phosphate)<sup>1</sup> or *Simple Green*<sup>2</sup>. Water pressure should not exceed 1,500 psi (10.3 MPa) to clean the surface without removing the coating material from the wall

surface. A small test patch should be done first to determine how long the cleaning agent should be left on the surface before rinsing.

3. Removal of stubborn marks may require the use of a soft bristle brush with the cleaning solution. Avoid stiff brushes that may abrade the coating.
4. If scrubbing with a soft bristle brush using a TSP solution is ineffective, *Citri-Solve*<sup>3</sup> (rather than TSP) may be applied directly to the surface or brush. A small test patch should be completed to determine the product's effectiveness.

## HANDLING PRECAUTIONS

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND MATERIAL SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE MATERIAL SAFETY DATA SHEET IS AVAILABLE FROM YOUR DOW CORNING REPRESENTATIVE, OR DISTRIBUTOR, OR BY CALLING YOUR GLOBAL DOW CORNING CONNECTION.

## USABLE LIFE AND STORAGE

Protect *Dow Corning AllGuard Silicone Elastomeric Coating* and *Dow Corning AllGuard Primer* from freezing. Store in a cool, dry place out of the weather. When properly stored in its original, unopened container above 1°C (34°F) and below 32°C (90°F), *Dow Corning AllGuard Silicone Elastomeric Coating* and *Dow Corning AllGuard Primer* have shelf lives of 12 months and 18 months, respectively, from date of manufacture. Refer to product packaging for "Use By Date."

## PACKAGING

*Dow Corning AllGuard Silicone Elastomeric Coating* and *Dow Corning AllGuard Primer* are available in 5-gal (19-L) pails (42-46 lb [19-21 kg] per pail depending on color).

## LIMITATIONS

*Dow Corning AllGuard Silicone Elastomeric Coating* should not be applied:

- When the ambient or surface temperature is expected to fall below 5°C (40°F) within 24 hours of application
- When there is a threat of rain within the next 24 hours or the relative humidity is in excess of 90 percent (because conditions would not permit complete surface drying)
- On below-grade applications
- On non-masonry substrates such as metal, wood, plastic or asphaltic materials, or on tar-contaminated masonry

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

## HEALTH AND ENVIRONMENTAL INFORMATION

To support customers in their product safety needs, Dow Corning has an extensive Product Stewardship organization and a team of Health, Environment and Regulatory Affairs specialists available in each area.

For further information, please consult your local Dow Corning representative.

## AVAILABILITY

*Dow Corning AllGuard Silicone Elastomeric Coating* and *Dow Corning AllGuard Primer* are marketed throughout North America. For the location of the distributor nearest you or for additional product information, contact your Dow Corning Customer Service Representative at 1-800-322-8723 or (989) 496-6000.

<sup>1</sup>Follow solvent manufacturer's recommended safe handling instructions and applicable federal, state and local laws.

<sup>2</sup>*Simple Green* is a trademark of Sunshine Makers, Inc.

<sup>3</sup>*Citri-Solve* is a trademark of Omega Laboratories, Inc.

**LIMITED WARRANTY  
INFORMATION – PLEASE  
READ CAREFULLY**

Unless Dow Corning issues a project-specific written warranty,

Dow Corning warrants only that the goods meet Dow Corning's sales specifications at the time of shipment.

**DOW CORNING EXPRESSLY  
DISCLAIMS ANY EXPRESS OR  
IMPLIED WARRANTY OF MER-  
CHANTABILITY OR FITNESS  
FOR A PARTICULAR PURPOSE.**

The buyer's exclusive remedy and Dow Corning's sole responsibility for any claim arising out of the purchase or use of these goods is expressly limited to either replacement of the nonconforming goods or refund of the purchase price within 90 days of the date of purchase.

Dow Corning offers a project-specific 10-Year Limited Waterproof Performance Warranty when the *Dow Corning* AllGuard Silicone

Elastomeric Coating is applied in accordance with Dow Corning's published application guidelines. Contact your Dow Corning Sales Representative for details or to apply for a project-specific warranty. Under this Limited Warranty, for a period of ten years from the date of purchase, Dow Corning will be responsible for the cost of replacement coating for any areas in which the *Dow Corning* AllGuard Silicone Elastomeric Coating fails to protect the above-grade substrate from through-water penetration and for the cost of labor to apply such replacement coating, up to a maximum of five times the cost of the replacement coating. Dow Corning's warranty is subject to certain restrictions and does not cover faults attributable to workmanship or the appearance of the coating.

NOTE: No warranty is available when *Dow Corning* AllGuard Silicone Elastomeric Coating is used on a single-family residential dwelling.