

# Product Information

## Silicone Sealants

**DOW CORNING**

# *Dow Corning*<sup>®</sup> Contractors Concrete Sealant

## **FEATURES**

- Excellent weatherproofing performance in building joints that experience extreme movement
- Excellent adhesion to concrete and masonry
- Low VOC content
- Easy application over a wide temperature range
- Extension/compression capability of ±50 percent

## **COMPOSITION**

- Low-modulus, one-part, neutral-cure, 100% silicone sealant

Low-modulus silicone joint sealant

## **APPLICATIONS**

- Sealing joints between tilt-up concrete walls, joints surrounding window and door openings in tilt-up concrete walls, Exterior Insulation and Finish Systems (EIFS) joints and many other construction joints
- On most building materials in any combination: concrete, masonry, stone, ceramics, finished steel and aluminum

## **TYPICAL PROPERTIES**

Specification Writers: These values are not intended for use in preparing specifications. Please contact your local Dow Corning sales office or your Global Dow Corning Connection before writing specifications on this product.

Test*	Property	Unit	Result
<b>As Supplied</b>			
	Colors		White, antique white, precast white, gray, charcoal, black, sandstone, limestone, bronze, window bronze and aluminum
ASTM C 679	Tack-Free Time, 50% RH	hours	1
	Curing Time, 50% RH, at 25°C (77°F)	days	7-14
	Full Adhesion	days	14-21
	Flow, Sag or Slump		None
	Working Time	minutes	10-20
	VOC Content	g/L	22
<b>As Cured – After 7 days at 25°C (77°F) and 50% RH</b>			
ASTM C 661	Durometer Hardness, Shore A	points	15
ASTM D 412	Ultimate Tensile Strength, maximum elongation	psi (kg/mm <sup>2</sup> )	100 (0.070)
ASTM D 412	Elongation, maximum	percent	1600
ASTM C 794	Peel Strength	lb/in (kg/cm)	25 (4.46)
ASTM C 719	Joint Movement Capabilities, extension/compression	percent	±50
ASTM C 510	Staining, on concrete and brick <sup>1</sup>		None

\*ASTM: American Society for Testing and Materials.

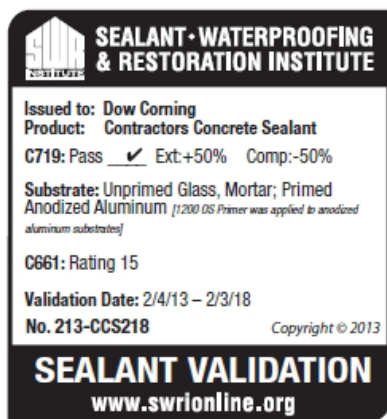
<sup>1</sup>After 14 days of 50% compression at 70°C (158°F).

## DESCRIPTION

*Dow Corning*<sup>®</sup> Contractors Concrete Sealant is a one-part, moisture-cure silicone sealant that provides durable, flexible, watertight joint seals and offers outstanding unprimed adhesion to masonry.

The low-modulus material places only a low stress on the sealant/substrate bond line and exhibits good recovery from extension and compression, enabling superior performance in joints that experience movement extremes. The high joint movement ability of *Dow Corning* Contractors Concrete Sealant typically allows the repair of failed joints, with no joint widening – saving time and labor costs – due to the increased movement capability of this product compared to organic products used previously.

*Dow Corning* Contractors Concrete Sealant is available in 11 standard stocked colors (white, antique white, precast white, gray, charcoal, black, sandstone, limestone, bronze, window bronze and aluminum). Custom colors are also available.



## APPROVALS/ SPECIFICATIONS

*Dow Corning* Contractors Concrete Sealant meets or exceeds the requirements of:

- ASTM Specification C 920, Type S, Grade NS, Class 50, Use T, NT, M, G, A and O

- Federal Specification TT-S-001543A for silicone building sealants
- Federal Specification TT-S-00230C for one-component building sealants

## HOW TO USE

Refer to the *Dow Corning Americas Technical Manual*, Form No. 62-1112, for detailed information on joint design, preparatory work, priming, masking and application techniques.

### Surface Preparation

Clean all concrete, masonry and stone joints of all contaminants and impurities. Porous substrates should be cleaned where necessary by grinding, saw cutting, blast cleaning (sand or water), mechanical abrading or a combination of these methods as required to provide a sound, clean, dry surface for sealant application. Dust, loose particles, etc., should be blown out of joints with oil-free compressed air or be vacuum cleaned.

Metal and glass surfaces adjacent to masonry should be cleaned by wiping with an oil-free absorbent cloth saturated with solvent such as xylene or toluene.<sup>1</sup> *Do not use alcohols as they inhibit the cure.*

### Priming

Primer should be applied before installing the backer rod. Applying a bead of silicone sealant to the substrate material to test adhesion prior to general use is always recommended.

Primer is not required with concrete, masonry, most glass and most porous surfaces. Most aluminum substrates (painted, mill, anodized, etc.) and other nonporous surfaces require use of a primer. Consult *Dow Corning* for priming recommendations on other materials.

In all cases, a sample should be tested and/or test joints should be installed on the project.

### Masking

Areas adjacent to joints may be masked to ensure neat sealant lines. Do not allow masking tape to touch clean surfaces to which the silicone sealant is to adhere. Tooling should be completed in one continuous stroke immediately after sealant application and before a skin forms. Masking should be removed immediately after tooling.

### Application

*Dow Corning* Contractors Concrete Sealant should be applied in a continuous operation. A positive pressure adequate to properly fill and seal the joint width should be employed.

The sealant can be applied at outdoor temperatures as low as -29°C (-20°F), provided that surfaces are clean, dry and frost-free. As a general rule, condensation or frost should not be a problem above 4.4°C (40°F).

### Tooling

Tool or strike *Dow Corning* Contractors Concrete Sealant with light pressure to spread the material against the back-up material and the joint surfaces. *Do not use soaps, oil or alcohols as tooling aids as they inhibit the cure.*

Use a tool with a concave profile to keep *Dow Corning* Contractors Concrete Sealant within the joint.

### Cleaning

Do not allow uncured silicone sealants to contact non-abradable surfaces such as polished granites, metal or glass. Uncured sealant will leave a film that may change the aesthetic surface characteristics of these substrates. Inadvertently applied sealant should be cleaned from nonporous surfaces using solvent before cure.<sup>1</sup>

<sup>1</sup>Follow the solvent manufacturer's safe handling recommendations and local, state and federal regulations regarding solvent usage.

## 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 ON THE DOW CORNING WEB SITE AT DOW CORNING.COM, OR FROM YOUR DOW CORNING SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CORNING CUSTOMER SERVICE.**

### USABLE LIFE AND STORAGE

When stored at or below 32°C (90°F), *Dow Corning* Contractors Concrete Sealant has a shelf life of 12 months from date of manufacture. Refer to product packaging for “Use By” date.

### PACKAGING INFORMATION

*Dow Corning* Contractors Concrete Sealant is packaged in 10.3 fl-oz (305-mL) cartridges, 20-fl oz (590-mL) sausages that fit caulking guns, and in 2.0-gal (7.5-L) bulk pails. It can be dispensed by many air-operated guns and most types of bulk dispensing equipment.

## LIMITATIONS

*Dow Corning* Contractors Concrete Sealant should be applied to concrete that is cured for 28 days. Green concrete (less than 7 days old) will cause adhesion loss of the sealant. Concrete 7 to 28 days old may require priming to obtain proper adhesion. Additional field quality control adhesion testing is necessary if project requirements dictate sealing to concrete less than 28 days old.

*Dow Corning* Contractors Concrete Sealant should not be applied:

- Below grade
- To epoxy-based materials as inhibition will occur

*Dow Corning* Contractors Concrete Sealant will yellow when in contact with bitumen- or EPDM-based products.

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

### SHIPPING LIMITATIONS

None.

### HEALTH AND ENVIRONMENTAL INFORMATION

To support Customers in their product safety needs, *Dow Corning* has an extensive Product Stewardship organization and a team of Product Safety and Regulatory Compliance (PS&RC) specialists available in each area.

For further information, please see our Web site, [dowcorning.com](http://dowcorning.com) or consult your local *Dow Corning* representative.

## LIMITED WARRANTY INFORMATION – PLEASE READ CAREFULLY

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer’s tests to ensure that our products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

*Dow Corning*’s sole warranty is that our products will meet the sales specifications in effect at the time of shipment.

Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

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**DOW CORNING DISCLAIMS LIABILITY FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.**

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