

## Product Information

# Silicone Sealants

DOW CORNING

## Dow Corning® Contractors Weatherproofing Sealant

### FEATURES

- Primerless on most common porous and nonporous building substrates
- Balanced adhesive strength, medium modulus and high recovery
- Easily gunnable in all weather conditions

### COMPOSITION

- High-performance, medium-modulus, one-part, silicone sealant.

### Medium-modulus silicone joint sealant

### APPLICATIONS

*Dow Corning® Contractors Weatherproofing Sealant* is specifically developed for sealing dynamically moving joints such as: expansion and control joints, concrete panel joints, tilt-up panel joints, curtainwall joints, perimeter caulking (windows, doors, panels, EIFS, radon mitigation, bedding of mullions, panels and frames, etc.).

### 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                  |
|------------|---|-------------|-------------------------|
| ASTM C 794 | Adhesion in Peel                                    | lb/in (N/m) | 20 to 28 (109 to 152)   |
| ASTM D 412 | Tensile Strength                                    | psi (MPa)   | 180 (1.24)              |
| ASTM D 412 | Ultimate Elongation                                 | percent     | 550                     |
| ASTM C 639 | Weep and Sag  |             | Passes                  |
| ASTM C 510 | Staining  |             | Passes                  |
| ASTM C 792 | Weight Loss, Cracking and Chalking after Heat Aging |             | Passes                  |
| ASTM C 661 | Hardness at Standard Conditions, Shore A            | points      | 25 ±5                   |
| ASTM C 719 | Durability (Bond and Cohesion)                      |             | Passes ±25%             |
|            | Service Temperature, cured bead                     | °F (°C)     | -40 to 250 (-40 to 121) |
|            | Application Temperature, substrate                  | °F (°C)     | -20 to 120 (-29 to 49)  |

### DESCRIPTION

*Dow Corning Contractors Weatherproofing Sealant* is primerless on most common porous and nonporous building substrates, including concrete, masonry, precast, EIFS, aluminum and painted aluminum. This unique weather-resistant formulation possesses a balanced adhesive strength, medium modulus and high recovery, making it ideal to withstand adverse conditions common installations including moisture, movement, shear and deflection. It is easily gunnable in all weather conditions from -20 to 120°F (-29 to 49°C). Because it requires no mixing and a smaller joint ratio, it is an economical, high-performance alternative to other sealant options with a ±25 percent movement capability.

*Dow Corning Contractors Weatherproofing Sealant* is available in 11 standard stocked colors and 18 made-to-order special colors.

### APPLICABLE STANDARDS

- TTS-01543A
- TTS-00230C, Type II, Class A ±25% movement capability
- ASTM C 920, Type S, Grade NS, Class 25, Use NT, M, A and O (granite)

### HOW TO USE

#### Joint Design

While most urethanes suggest a depth of 1/2" to 5/8" (13 to 16 mm) in wide joints, the superior weathering of this silicone allows a 3/8" (9 mm) depth in wide joints. *Dow Corning Contractors*

Weatherproofing Sealant can be used in the following joint configuration:

- A. Minimum width of joint should be four times the anticipated movement, but not less than 1/4" (6 mm) wide.
- B. Joint depth to be 1/4" (6 mm) for joints 1/4" to 1/2" (6 to 13 mm) in width.
- C. Maximum joint depth not to exceed 3/8" (9 mm).
- D. Maximum joint size approximately 1-1/4" (32 mm) width x 3/8" (9 mm) depth in a single application.
- E. Consult your local Dow Corning representative for specific design requirements.

### Surface Preparation

The joint interface must be clean, dry and free from oils, loose mortar, laitance, form release agents, water-proofings, dampproofings and other contaminants. A thorough wire brushing, grinding, sandblasting or solvent cleaning may be required to expose clean, sound, virgin surface.

### Priming

*Dow Corning Contractors Weatherproofing Sealant* is primerless on most common porous and nonporous building substrates, including concrete, masonry, precast, EIFS, aluminum and painted aluminum. It is the user's responsibility to check the adhesion of the cured sealant on typical test joints at the project site before and during application.

Cure Rate at 77°F and 50% RH:

- A. Initial skinning: 3-6 hours
- B. Through cure (3/8" [9 mm] depth): 7-14 days

### Application

Install backer material or joint filler, setting blocks, spacer shims and tapes as specified. Apply sealant in a continuous operation, using a positive pressure adequate to properly fill and seal the joint.

### Tooling

Tooling should be completed in one continuous stroke immediately after sealant application and before a skin forms. Tool or strike the sealant with light pressure to spread the material against the backer material and the joint surfaces. A tool with a concave profile is recommended to keep the sealant within the joint. Do not use liquid tooling aids such as water, soap or solvents.

Tool the sealant applied at sills so that precipitation and cleaning solutions will not pool.

### Masking

Areas adjacent to joints should be masked to ensure neat sealant lines and to avoid contact with polished granites, metal or glass. Do not allow masking tape to touch clean surfaces on which the sealant is to adhere. Masking should be removed immediately after tooling.

### Cleaning

Immediately remove all excess sealant and smears adjacent to the joint with Xylol or Toluol as work progresses.<sup>1</sup>

### Painting

*Dow Corning Contractors Weatherproofing Sealant* can be covered immediately after cure with many common paints and coatings. Before applying a paint or coating to the sealant, check for compatibility and adhesion. Follow the paint manufacturer's instructions for adhesion, compatibility and elasticity.

### Maintenance

Generally, no maintenance is required. If the sealant becomes damaged, replace the damaged portion. *Dow Corning Contractors Weatherproofing Sealant* will adhere to most cured silicone sealant with only a preparatory solvent wipe to remove accumulated dirt. Dirty sealant may be cleaned with a solvent wipe or soap and water.

### 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.

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