



TBP Converting, Inc.
Dow CWS PDS



Technical Data Sheet

DOWSIL™ Contractors Weatherproofing Sealant

FEATURES & BENEFITS

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

COMPOSITION

- High-performance, medium modulus, one-part, neutral-cure silicone sealant

Medium-modulus silicone joint sealant

APPLICATIONS

- 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, bedding of mullions, panels, and frames, etc.)

TYPICAL PROPERTIES

Specification Writers: These values are not intended for use in preparing specifications.

Test ¹	Property	Unit	Result
As Supplied			
	Colors		20 standard, 19 made-to-order special, and custom colors
	Application Temperature, substrate	°C °F	-29 to 49 -20 to 120
	Tack-Free Time, 50% RH	hours	3–6
	Curing Time, 3/8" (9 mm) depth, 50% RH at 25°C (77°F)	days	7–14
C 639	Weep and Sag		Passes
	VOC Content	g/L	35
As Cured			
C 661	Durometer Hardness, Shore A	points	25 ±5
D 412	Ultimate Tensile Strength	psi MPa	180 1.24
D 412	Ultimate Elongation	%	550
C 794	Peel Strength	lbs./in N/m	20 to 28 109 to 152
C 719	Joint Movement Capabilities, extension/compression	%	±40
C 510	Staining		Passes
C 792	Weight Loss, Cracking, and Chalking after Heat Aging		Passes
	Service Temperature, cured bead	°C °F	-40 to 121 -40 to 250

1. ASTM: American Society for Testing and Materials.

DESCRIPTION

DOWSIL™ Contractors Weatherproofing Sealant is primerless on most common nonporous building substrates. This unique weather-resistant formulation possesses a balanced adhesive strength, medium modulus, and high recovery, making it ideal to withstand adverse conditions in common installations including moisture, movement, shear, and de-flexion. It is easily gunnable in all weather conditions from -29 to 49°C (-20 to 120°F). Because it requires no mixing and a smaller joint ratio, it is an economical, high-performance alternative to other sealant options with a ±40 percent movement capability.

DOWSIL Contractors Weatherproofing Sealant is available in 20 standard stocked colors (white, limestone, gray, window bronze, sandstone, aluminum, antique white, charcoal, black, bronze, precast white, off white, ivory, buff, mountain fog, anodized aluminum, sandalwood, geographic beige, redwood tan, light bronze) and 19 made-to-order special colors. Custom colors are also available.



APPROVALS/ SPECIFICATIONS

DOWSIL Contractors Weatherproofing Sealant meets or exceeds the requirements of:

- ASTM C 920, Type S, Grade NS, Class 35, Use NT, M, A, and O (granite)

UNRESTRICTED – May be shared with anyone

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DOWSIL™ Contractors Weatherproofing Sealant

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HOW TO USE

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

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. DOWSIL Contractors Weatherproofing Sealant can be used in the following joint configuration:

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

Surface Preparation

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

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.

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Weatherproofing Sealant is primerless on most common nonporous building substrates. Consult Dow 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 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.

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.

Cleaning

Immediately remove all excess sealant and smears adjacent to the joint with xylene or toluene as work progresses.¹

Typical Cure

Cure rate at 25°C (77°F) and 50% RH:

- Tack-free time: 3–6 hours
- Through cure (3/8" [9 mm] depth): 7–14 days

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

Maintenance

Generally, no maintenance is required. If the sealant becomes damaged, replace the damaged portion.

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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 SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET IS AVAILABLE ON THE DOW WEBSITE AT WWW.CONSUMER.DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.

USABLE LIFE AND STORAGE

DOWSIL Contractors

Weatherproofing Sealant has a shelf life of 18 months from date of manufacture. Refer to product packaging for "Use By" date.

PACKAGING INFORMATION

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Weatherproofing Sealant is available in 10.3-fl oz (305-mL) cartridges (12 per case), 20-fl oz (591-mL) sausage packs (16 per case) and 2-gal (7.5-L) pails.

LIMITATIONS

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

DOWSIL Contractors

Weatherproofing Sealant is not recommended for:

- Silicone structural glazing
- Application in confined areas without proper ventilation
- Joints under constant water submersion

SHIPPING LIMITATIONS

None.

HEALTH AND ENVIRONMENTAL INFORMATION

To support customers in their product safety needs, Dow has an extensive Product Stewardship organization and a team of product safety and regulatory compliance specialists available in each area.

For further information, please see our website, www.consumer.dow.com or consult your local Dow 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'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.

TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, DOW SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY.

DOW DISCLAIMS LIABILITY FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES

A 5-year Weatherseal Limited Warranty is available. Some testing may be required. Consult your Dow Sales Application Engineer for details.

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