



## Technical Data Sheet

### DOWSIL™ Contractors Paintable Sealant

Distinct paintable weather-proofing sealant with balanced adhesive strength and high recovery for typical building applications.

#### Features & Benefits

- Low VOC formulation, meeting American and European VOC regulations
- Paintable with latex based paints
- Application temperature range of 40°F to 122°F (4.4°C to 50°C)
- Service temperature range of -75°F to 300°F (-60°C to 150°C)
- Extension/compression movement capability of up to  $\pm 50\%$  of the original joint width
- Primerless adhesion on most common non-porous substrates
- Low odor
- Fast cure
- Non-staining
- Non-corrosive
- STPE

#### Composition

- Neutral-cure, one-part sealant, high modulus RTV silane-modified hybrid joint sealant

#### Applications

- Paintable sealant intended for weather-sealing of building enclosures
- Windows, doors, gutters, vents/ducts, roofs, siding, molding/trim

#### Typical Properties

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

Test <sup>1</sup>	Property	Unit	Result
ASTM C679	Tack Free Time	Hours	< 2
ASTM C661	Durometer Hardness, Shore A	Points	15–25
ASTM C719	Joint Movement Capabilities, Extension/Compression	%	$\pm 50$
ASTM C793	Weight Loss, Cracking and Chalking after Heat Aging		Pass
ASTM C794	Peel Strength	lbf/in	> 20
ASTM D412	Elongation	%	700–1000
ASTM D412	Modulus	psi	170–200

1. ASTM: American Society for Testing and Materials

## **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.

## **Application Method**

Install backing material or joint filler, setting blocks, spacer shims and tapes. Mask areas adjacent to joints to ensure neat sealant lines. Primer is generally not required on non-porous surfaces but may be necessary for optimal sealant of certain porous surfaces. Field adhesion testing should be used to confirm surface preparation. DOWSIL™ Primer P would be appropriate primer if needed. Apply DOWSIL™ Contractors Paintable Sealant in a continuous operation using a positive pressure. The sealant can be applied using many types of air-operated guns and most types of bulk dispensing equipment. Should be tooled immediately after extruding into joint opening. Tool the sealant with light pressure to spread the sealant against backing material and the joint surfaces. Remove masking tape as soon as the bead is tooled.

## **Priming**

DOWSIL™ Contractors Paintable Sealant is primer less on most common porous and nonporous building substrates. It also adheres to most cured DOWSIL™ construction silicone sealants. Field adhesion testing is always recommended to determine appropriate surface preparation prior to full installation. If primer is needed DOWSIL™ Primer P can be used on porous substrates and DOWSIL™ 1200 OS Primer can be used on non-porous surfaces. Primer should always be applied before installing the backer rod.

## **Masking**

Areas adjacent to joints should be masked as needed to ensure neat sealant lines. Do not allow masking tape to touch clean surfaces on which the sealant is to adhere. Masking should be removed immediately after tooling.

## **Tooling**

Tooling should be completed in one continuous stroke immediately after sealant application and before a skin forms. Tool 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 IPA or R40 as work progresses.<sup>1</sup>

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

## **Typical Cure**

Cure rate at 25°C (77°F) and 50% RH:

- A. Skin over time: 30 min–1 hour
- B. Through cure (3/8" [9 mm] depth): 7–14 days

## **Painting**

Cure product may be painted with most industrial & consumer paints. Testing prior to painting is recommended.

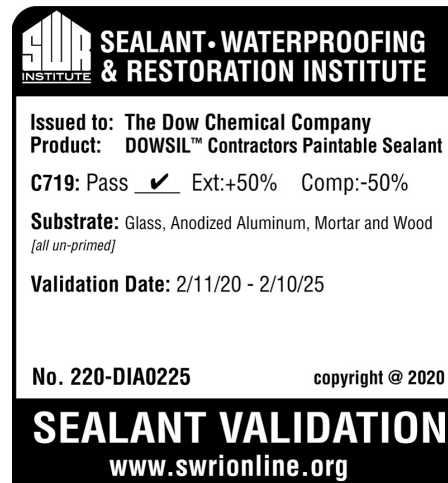
## **Maintenance**

Generally, no maintenance is required. If the sealant becomes damaged, replace the damaged portion. Dirty sealant may be cleaned with a solvent wipe or soap and water.

## Approvals / Certifications / Specifications

Meets the requirements of:

- ASTM C920 Type S, Grade NS, Class 50, Use T<sub>2</sub>, NT, M, A, G and O



## Colors

Standard colors — white, black, bronze, gray (two shades), limestone. Other colors may be available upon request.

## 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 DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.

## Usable Life and Storage

For maximum lifetime store below 80°F (27°C) in the original unopened containers. DOWSIL™ Contractors Paintable Sealant has a usable life of 12 months from the date of manufacture. Refer to product packaging for “Use By” date.

## Packaging Information

DOWSIL™ Contractors Paintable Sealant is available in 10.1 fl oz (299 mL) disposable plastic cartridges with nozzle that fit ordinary caulking guns and 20 fl oz (591 mL) foil sausages.

## Limitations

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

DOWSIL™ Contractors Paintable Sealant should not be used:

- In below-grade applications;
- When surface temperatures exceed 50°C (122°F);
- On surfaces that are continuously immersed in water;
- On building materials that bleed oils, plasticizers or solvents, green or partially vulcanized rubber gaskets or tapes;
- For application on Teflon, polypropylene, or polyethylene surfaces;
- On frost-laden or wet surfaces; or
- To surfaces in direct contact with food or other food-grade applications.

## **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, [dow.com](http://dow.com), or consult your local Dow representative.

## **Disposal Considerations**

Dispose in accordance with all local, state (provincial) and federal regulations. Empty containers may contain hazardous residues. This material and its container must be disposed in a safe and legal manner.

It is the user's responsibility to verify that treatment and disposal procedures comply with local, state (provincial) and federal regulations. Contact your Dow Technical Representative for more information.

## **Product Stewardship**

Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products — from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

## **Customer Notice**

Dow strongly encourages its customers to review both their manufacturing processes and their applications of Dow products from the standpoint of human health and environmental quality to ensure that Dow products are not used in ways for which they are not intended or tested. Dow personnel are available to answer your questions and to provide reasonable technical support. Dow product literature, including safety data sheets, should be consulted prior to use of Dow products. Current safety data sheets are available from Dow.

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