Technical Data Sheet

DOWSIL™ Primer-C OS

Primer for silicone adhesives and sealants offering a low VOC and unique fluorescing feature, allowing for a visual quality control check to ensure primer has been applied.

Features & Benefits

- Improves adhesion of silicone sealants to many substrates
- Accelerates adhesion build of 2 part structural sealants
- Fluoresces under a 365 nm wavelength light so that a visual check can confirm presence of primer
- Conforms to South Coast and Bay Air Quality Management District Regulations for Architectural Sealant Primers
- Low VOC at 49 g/l as a low solids sealant primer
- User friendly with low VOC
- Improves quality control processes by offering a visual confirmation of primer presence
- Quick cure time
- Non staining
- Improves sealant adhesion to plastics

Applications

- Accelerated adhesion of DOWSIL™ 983 Structural Glazing Sealant to coated aluminum substrates such as polyvinylidene fluoride (PVDF) or Kynar based paints
- For in shop or field use with DOWSIL™ construction sealants, both 1 and 2 part

Typical Properties

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

Property	Unit	Result
As supplied		
Color		Colorless
Viscosity at 23°C (73.4°F)	mPa.s	< 10
Flash point - closed cup	°C (°F)	-9 (15.8)
VOC inclusive	g/l	49
Specific gravity at 23°C (73.4°F)		0.9
As applied		
Adhesion per ASTM[1] C-794, with DOWSIL™ 983 Structural Glazing Sealant	pli	> 20

1. ASTM: American Society for Testing and Materials.

Description

DOWSIL™ Primer-C OS is used to improve adhesion and accelerate adhesion build-up of silicone sealants to various substrates. This moisture curing primer is a film forming adhesion promoter.

The DOWSIL™ Primer-C OS is classified as Low-Solids Sealant Primer according to the following regulations: Rule 1168 for Adhesives and Sealant Applications published on the South Coast Air Quality Management District and Rule 8-51 for Organic Compounds, Adhesive and sealant products published by the Bay Area Air Quality Management District. The VOC Inclusive value reported on the product label follows the definitions on these regulations.

Benefits

DOWSIL™ Primer-C OS has been shown to promote faster adhesion across different environmental conditions.

DOWSIL™ Primer-C OS contains a unique UV indicator which allows the primer to be visible under a 365 nm wavelength light, so that quality control procedures may be tailored to ensure presence of primer.

Other benefits can be determined in actual field installation and application tests.

How to Use

With many surfaces, substantially stronger and more uniform bonds are obtained by preparing them with a primer prior to the application of the silicone sealant. For obtaining best results, the following steps should be followed on all surfaces except silicone rubber.

1. Thoroughly clean and degrease the surface using a 2 rag wipe method and appropriate solvent, when needed. Cleaning procedures are defined in the Americas Technical Manual. Allow the surface to dry.
2. Apply a single coat of DOWSIL™ Primer-C OS to the substrate. DOWSIL™ Primer-C OS should be applied with a lint-free cloth to maximize primer coverage rate and obtain a consistent film thickness. While a brush may be used to apply DOWSIL™ Primer-C OS, the coverage rate will be lessened and it will be more difficult to obtain consistent film thickness.

   If applying in a sealant joint utilizing backer rod, apply the DOWSIL™ Primer-C OS before the installation of backer rod.

   The primer, when applied, may show as slightly white depending on the contrast to the substrate color.
3. To verify presence and continuity of primer, illuminate the primed surface using a flashlight with a wavelength of 365 nm. Please do not use a wavelength of less than 340 nm as it could be damaging to eyes. At minimum, the UV indicator will remain active for 24 hours, allowing for QC checks to be completed. Dow recommends sealant applied within 24 hours after primer application.
4. Allow the primer to dry for 20 minutes at room temperature or 1 hour at 5°C (41°F) before applying and tooling the sealant. Because this primer is a moisture-cure product, additional time is required for reaction before sealant application in cold temperatures. Refer to published sealant installation guidelines for further information.
5. Apply silicone sealant from Dow.
6. Always use buffer container when applying with a brush. To avoid contamination and product deactivation, do not mix used materials into fresh or unused primer can.

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

Containers should be kept tightly sealed when not in use. When stored at or below 32°C (90°F) in the original unopened containers, DOWSIL™ Primer-C OS has a usable life of 18 months from the date of manufacture.

DOWSIL™ Primer-C OS is highly flammable. Use caution when handling.

This material must be stored in a warehouse or cabinet suitable for flammable materials.

Containers should be kept tightly sealed when not in use. The primer hydrolyses upon contact with air moisture, and prolonged exposure will reduce or destroy its effectiveness.

Once hydrolysed, indicated by a milky appearance, the material cannot be reclaimed, and will contaminate any unreacted primer.

Packaging Information

DOWSIL™ Primer-C OS is available 358 g cans and 3.41 kg pails.

Limitations

Note: This primer will dissolve the expanded polystyrene (EPS) insulation board found within Exterior Insulation and Finish Systems (EIFS). Over-application of this product onto EIFS substrates could diminish the integrity of the substrate and void the EIFS Manufacturers Warranty.

Expired primer turns milky white.

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 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 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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