

Information About *Dow Corning*[®] 700 Industrial Grade Silicone Sealant

Type One-part silicone rubber
Physical Form Nonslumping paste
Cure Acetoxycure; cures at room temperature upon exposure to water vapor in the air; gives off a small amount of acetic acid
Special Properties Cured sealant stays rubbery from -76 to 400°F (-60 to 204°C)
Primary Uses General industrial sealing and adhesive applications

DESCRIPTION

Dow Corning[®] 700 Industrial Grade Silicone Sealant is a one-part, acetoxycure, adhesive sealant suitable for general industrial sealing and adhesive applications. The sealant will adhere to clean metal, glass, silicone rubber and plastic surfaces. A primer may be required for optimum adhesion to some substrates.

FEATURES

- Resistant to weathering
- Withstands temperature extremes; remains flexible from -76 to 350°F (-60 to 177°C) for continuous use and up to 400°F (204°C) for intermittent use
- Cures at room temperature

USES

- Adhering auto trim, appliance trim and nameplates
- Formed-in-place gaskets for compressors, gear boxes and pumps
- Bonding appliance parts and signs
- Caulking doors and windows
- Sealing out moisture

LIMITATIONS

Dow Corning 700 Industrial Grade Silicone Sealant is not recommended:

- For underwater use
- On concrete or mortar

- On oily woods such as cedar, teak and cypress
- On surfaces to be painted; paints will not adhere well to sealant (paint before applying sealant)
- In totally confined areas (atmospheric moisture is required for cure)
- On *Teflon*^{®1}-coated materials, polyethylene or polypropylene
- For use on or near sensitive metals such as copper, brass, zinc, galvanized iron or magnesium (acetic acid released during cure can be corrosive especially in confined cure conditions)

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

AUTHORIZATIONS

- FDA Regulation 21 CFR 177.2600 for incidental contact with food
- National Sanitation Foundation, List 51, for direct food contact
- Recognized under UL QMFZ2

HOW TO USE

Dow Corning 700 Industrial Grade Silicone Sealant is supplied in ready-to-use form. It flows readily from its container under pressure. The paste-like consistency makes it easy to work; a spatula or wooden paddle can be used to tool the surface.

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TYPICAL PROPERTIES

These values are not intended for use in preparing specifications.

As Supplied

	Color	Aluminum, clear, white, black
CTM ¹ 0097	Specific Gravity	1.02
CTM 0364	Extrusion Rate (1/8" orifice, 90 psi), grams/minute	450

Cure Characteristics – Exposed to Air at 77°F (25°C) and 50 percent RH

CTM 0095	Tack-Free Time at 77°F (25°C) and 50 percent RH, minutes	15
	Cure Time (1/8" bead), hours	24

Physical Properties – As Cured 7 days at 77°F (25°C) and 50 percent RH

CTM 0099	Durometer Hardness, Shore A, points	20
CTM 0137A	Tensile Strength, psi	225
CTM 0137A	Elongation, percent	577

¹CTMs (Corporate Test Methods) correspond to standard ASTM tests in most instances. Copies of CTMs are available upon request.

Specification Writers: Please obtain a copy of the Dow Corning Sales Specification for this product and use it as a basis for your specifications. It may be obtained from any Dow Corning Sales Office, or from Dow Corning Customer Service in Midland, MI. Call (517) 496-6000.



Surface Preparation: Clean and dry the surface. Remove any soap or oil. Slight abrasion of the surface will improve adhesion. Priming may be required – see Primer Recommendations.

Masking: Mask adjacent surfaces to ensure neat sealant lines.

Application: Apply sealant in a continuous operation by holding applicator at a 45° angle and pushing the adhesive ahead of the nozzle.

Tooling: Tool, as needed, immediately after application and before a skin forms (usually within 5 minutes).

Cleanup: Remove excessive adhesive with a dry paper towel. Remove masking as soon as tooling is completed.

PRIMER RECOMMENDATIONS

For stronger, more uniform bonds, primer may be applied before the sealant.

For metals and many other substrates, *Dow Corning*® 1200 Prime Coat or low-VOC *Dow Corning*® P5200 Adhesion Promoter is recommended. For paints, plastics and organic rubber materials, use *Dow Corning*® 1205 Prime Coat.

Follow surface preparation guidelines above and apply a thin film of prime coat. Allow to dry about 1 hour or until dry to the touch. Follow complete instructions provided with the primer.

SHIPPING LIMITATIONS

None.

STORAGE AND SHELF LIFE

When stored in original, unopened containers below 90°F (32°C), *Dow Corning* 700 Industrial Grade Silicone Sealant has a shelf life of 30 months from date of manufacture. Refer to product packaging for “Use By” date. Containers should always be kept sealed when not in use. After a container has been opened, a plug of cured material may form in the nozzle or tube tip during storage. Remove the cured material and the remaining sealant is ready to use.

PACKAGING

Dow Corning 700 Industrial Grade Silicone Sealant is available in 3-oz tubes (clear only), 10.3-fl oz (305-mL) cartridges, 4.5-gal (17-L) pails and 52-gal (197-L) drums. Packaging availability is dependent upon sealant color.

SAFE HANDLING INFORMATION

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED. 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 WRITING TO DOW CORNING CUSTOMER SERVICE, OR BY CALLING (517) 496-6000.

LIMITED WARRANTY – PLEASE READ CAREFULLY

Dow Corning believes that the information in this publication is an accurate description of the typical characteristics and/or uses of the product or products, but it is your responsibility to thoroughly test the product in your specific application to determine its performance, efficacy and safety. Suggestions of uses should not be taken as inducements to infringe any particular patent.

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