

Product Information

Assembly and Maintenance

DOW CORNING

Dow Corning® 700 Industrial Grade Silicone Sealant

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

One-part RTV silicone rubber

APPLICATIONS

Physical Form

- Non-slumping paste

Cure

- Acetoxy cure; 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

TYPICAL PROPERTIES

Specification Writers: These values are not intended for use in preparing specifications. Please contact your local Dow Corning sales office or your Global Dow Corning Connection before writing specifications on this product.

CTM ¹	Property	Unit	Result
As supplied	Color		Aluminum clear, white, black
CTM 0097	Specific Gravity		1.02
CTM 0364	Extrusion Rate	1/8" orifice 90 psi	370 grams/minute
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, Cure Time (1/8" bead),	minutes	15
		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 (American Society for Testing and Materials) tests in most instances. Copies of CTMs are available upon request.

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.

LISTINGS / SPECIFICATIONS

- Complies with 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.

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.

HANDLING

PRECAUTIONS

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED. 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 FROM YOUR LOCAL DOW CORNING SALES REPRESENTATIVE.

STORAGE

Product should be stored at or below 32°C (90°F) in original, unopened containers. The most up-to-date shelf life information can be found on the XIAMETER Web site in the Product Detail page under Sales Specification.

LIMITATIONS

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

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)

HEALTH AND ENVIRONMENTAL INFORMATION

To support Customers in their product safety needs, Dow Corning has an extensive Product Stewardship organization and a team of Product Safety and Regulatory Compliance (PS&RC) specialists available in each area.

For further information, please see our Web site, dowcorning.com or consult your local Dow Corning 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 Corning'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.

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