



DOWSIL™ 700 Industrial Grade Silicone Sealant

One-part 100% silicone RTV

Features & Benefits

- Free of petroleum distillates
- 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

Applications

Physical Form

- Non-slumping paste

Cure

- Cured sealant stays rubbery from -76 to 400°F (-60 to 204°C)

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.

Test 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 grams/minute	370
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

1. CTMs (Corporate Test Methods) correspond to standard ASTM (American Society for Testing and Materials) tests in most instances. Copies of CTMs are available upon request.

Typical Properties (Cont.)

Test	Property	Unit	Result
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

Description

DOWSIL™ 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
- NSF ANSI 51 for all food contact types
- Recognized under UL QMF22

How to Use

DOWSIL™ 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.

Uses:

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

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, DOWSIL™ 1200 OS Primer or low-VOC DOWSIL™ P5200 Adhesion Promoter is recommended. For paints, plastics and organic rubber materials use DOWSIL™ PR-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 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**

Product should be stored at or below 32°C (90°F) in original, unopened containers.

Limitations

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

DOWSIL™ 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 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.

dow.com

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