



Technical Data Sheet

DOWSIL™ General Purpose Silicone Sealant

One-part, general-purpose RTV sealant

Features & Benefits

- Cures to 100% silicone rubber
- Resistant to sunlight and weather extremes
- Fast cure, high strength
- Clear and white formulations meet the requirements of FDA Regulation 21 CFR 177.2600
- Remains flexible; will not become brittle, crack, shrink or chalk
- Bonds to many common substrates
- Supplied is removable, reusable, resealable nozzle that saves time and sealant

Composition

- One-part, acetoxy-cure, RTV silicone

Applications

- As a bedding material, formed-in-place gasket, formed-in-place bumper
- Adhering trim, name plates, signs
- Sealing around sinks, faucets, showers, tubs, toilets and vents
- For most marine applications: sealing between hull and deck, most boat decks, windows, port lights, windshields and hatches

Typical Properties

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

Property	Unit	Result
Tooling Time ¹	minutes	5–10
Tack-Free Time ¹	minutes	15–20
Complete Set-Up Time, ¹ 1/8"	hours	24
Cure System		Acetoxy
Application Temperature Range	°F (°C)	-20 to 122 (-29 to 50)
VOC Content ²	g/L	32
As Cured – After 7 days		
Durometer Hardness, Shore A	points	27
Tensile Strength	psi	350
Elongation	percent	600
Temperature Range, continuous	°F (°C)	-40 to 350 (-40 to 176)
Movement Capability	percent	±25

1. At 77°F (25°C) and 50% relative humidity.

2. Based on South Coast Air Quality Management District of California. Maximum VOC is listed both inclusive and exclusive of water and exempt compounds.

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Description

DOWSIL™ General Purpose Silicone Sealant is a one-part, acetoxy cure silicone sealant for general purpose applications. It provides a flexible bond and will not harden or crack. DOWSIL General Purpose Silicone Sealant is a high-performance sealant, with $\pm 25\%$ movement capability when properly applied.

DOWSIL General Purpose Silicone Sealant (clear and white) meet the requirements of:

- FDA Regulation 21 CFR 177.2600

How To Use

1. **Refer** to product packaging for use-by date.
2. **Temperature.** Apply sealant at temperatures between -20 and 122°F (-29 and 50°C) for best results.
3. **Prepare surface.** Cut out and remove all old caulk for repair applications.
4. **Clean, Two-Step.** First, apply solvent to a lint-free cloth and vigorously wipe bonding surfaces to remove dirt and residues. Next, use a dry wipe to remove remaining solvent and residue for optimum cleaning. Repeat if necessary. Surfaces must be clean, dry, oil- and frost-free for best results. (Recommended solvents include isopropyl alcohol, toluene, xylene, naphtha or similar solvent.) Always wear gloves and follow safety precautions and directions on solvent container. DO NOT USE gasoline or kerosene.
5. **Install.** Install back-up spacing material for better filling, especially if the width exceeds 1/2" to maximize bonding results. Open-cell polyethylene foam backer rod can be used.
6. **Mask.** Apply masking tape to areas adjacent to the joint to ensure straight bead lines and easy cleanup. Remove masking tape immediately after the bead is completed and before a skin forms.
7. **Open cartridge.** Cut snub nose above threads, reattach and cut nozzle to desired size. Insert into a caulking gun.
8. **Apply.** Extrude sealant with a smooth, steady motion, and ensure complete fill of joint cavity before proceeding.
9. **Tool.** Tool the sealant immediately after application and before a skin forms. Remove masking immediately after tooling.
10. **Replace cartridge cap.** See "Usable Life and Storage" instructions.

Cleanup Instructions

1. Cleanup should start immediately after sealant has been applied/ tooled and masking tape has been removed.
2. While wearing solvent-resistant gloves, wipe off excess sealant from surfaces and tools with a solvent- moistened cloth within 10 minutes of application.
3. If excess sealant is completely cured, carefully cut or scrape away.
4. Avoid contact of uncured sealant with skin and clothing. If contact does occur, wipe with clean rags and wash with water.

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

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Usable Life And Storage

Store below 90°F (32°C) in a dry place. DOWSIL General Purpose Silicone Sealant has a usable life of 30 months from date of manufacture. Refer to product packaging for use-by date.

To store short term, replace cap. To store long term, unscrew nozzle, screw cap in cartridge and store nozzle in cap.

Packaging

DOWSIL General Purpose Silicone Sealant is supplied in a 10.3-fl oz (305-mL) cartridge with a 3-piece reusable, removable and resealable nozzle.

Aluminum

Container	Bar Code	Number
Cartridge	UPC	0 77472 14124 1
Shipping Box	UPC	0 77472 14125 8
Shipping Box	I2 of 5	1 00 77472 14124 8

Black

Container	Bar Code	Number
Cartridge	UPC	0 77472 14122 7
Shipping Box	UPC	0 77472 14123 4
Shipping Box	I2 of 5	1 00 77472 14122 4

Clear

Container	Bar Code	Number
Cartridge	UPC	0 77472 14010 7
Shipping Box	UPC	0 77472 14011 4
Shipping Box	I2 of 5	1 00 77472 14010 4

White

Container	Bar Code	Number
Cartridge	UPC	0 77472 14012 1
Shipping Box	UPC	0 77472 14013 8
Shipping Box	I2 of 5	1 00 77472 14012 8

Packaging (Cont.) To Order

Product/ Part Number	Color	Size
4045021	Aluminum	10.3 fl oz (305 mL)
4045022	Black	10.3 fl oz (305 mL)
4045023	Clear	10.3 fl oz (305 mL)
4045024	White	10.3 fl oz (305 mL)

Limitations

- Not for structural glazing
- Not paintable
- Not suited for prolonged submersion in water or below-grade applications
- May not adhere to oily woods or be compatible with substrates made of methylmethacrylate, polycarbonate, polypropylene, polyethylene and polytetrafluoroethylene
- Not suitable for surfaces that might bleed oils, plasticizers or solvents, or porous surfaces such as cement-like materials, stone or surfaces prone to attack by weak acids
- May not cure properly if used in spaces confined from atmospheric moisture
- May cause corrosion on some brass, copper, zinc or zinc alloy-containing fixtures (galvanized)
- Not for use where abrasion and physical abuse are encountered

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, www.consumer.dow.com or consult your local Dow representative.

<http://www.consumer.dow.com>

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'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.

TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, DOW SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY.

DOW DISCLAIMS LIABILITY FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.

