Product Information
Construction
Sealants

DOW CORNING

Dow Corning® HVAC/R Silicone Sealant

FEATURES

- Cures to 100% silicone rubber
- Resistant to sunlight and weather extremes
- Fast cure, high strength
- Meets the requirements of FDA Regulation No. 21 CFR 177.2600

BENEFITS

- Remains flexible; will not become brittle, crack, shrink or chalk
- Bonds to many common HVAC/R substrates
- Supplied in removable, reusable, resealable nozzle that saves time and sealant

COMPOSITION

- One-part, acetoxy-cure, RTV silicone

Dow Corning HVAC/R Silicone Sealant is available from:

One-part, RTV, acetoxy-cure silicone sealant for heating, ventilation, air conditioning and refrigeration applications

APPLICATIONS

- Heating, ventilation, air conditioning and refrigeration applications
- On most glass, plastic, metal, painted surfaces, fiberglass and ceramic substrates
- Sealing refrigerator and air conditioner interiors, around electrical boxes and equipment, and joints in food, dairy and beverage/coolers/display units
- Forming watertight seals around outdoor vents, pipe openings and electrical penetrations when properly applied

TYPICAL PROPERTIES

Specification Writers: Please contact your local Dow Corning Sales Application Engineer or Dow Corning Customer Service before writing specifications on this product.

Test	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	33
As Cured – After 7 days		
Durometer Hardness Shore A	points	27
Tensile Strength	psi	325
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. For a VOC data sheet for a specific sealant color, please send your request to product.inquiry@dowcorning.com.

DESCRIPTION

Dow Corning® HVAC/R Silicone Sealant is a one-part, RTV (room-temperature vulcanizing), acetoxy-cure silicone sealant for heating, ventilation, air conditioning and refrigeration applications. The sealant provides flexible bonds that will not become brittle, crack, shrink or chalk. It forms a long-lasting, water resistant seal with ±25% movement capability.

Dow Corning HVAC/R Silicone Sealant meets the requirements of:

- FDA Regulation No. 21 CFR 177.2600
- National Sanitation Foundation Standard 51

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 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 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 MATERIAL SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE MATERIAL SAFETY DATA SHEET IS AVAILABLE ON THE DOW CORNING WEBSITE AT WWW.DOWCORNING.COM, OR FROM YOUR DOW CORNING SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CORNING CUSTOMER SERVICE.

USABLE LIFE AND STORAGE

Store below 90°F (32°C) in a dry place. *Dow Corning* HVAC/R Silicone Sealant has a usable life of 27 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

Dow Corning HVAC/R Silicone Sealant is supplied in a 10.3-fl oz (305-mL) cartridge with a 3-piece reusable, removable and resealable nozzle.

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 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 website, www.dowcorning.com, or consult your local Dow Corning Sales Application Engineer.

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 Dow Corning's 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 the product will meet the Dow Corning 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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