

Product Information

Silicone Sealant

Dow Corning[®] HM-2500 Assembly Sealant

FEATURES

- Instant Green Strength
- 100% Silicone
- Low VOC (exempt in CA)
- Safe to handle – nonhazardous composition and by-products
- Neutral Cure RTV
- Adheres to most common substrates
- Open time up to 15 minutes
- Pot life up to 24 hours
- Service temperatures from –50 to 300° F (-45 to 150°C)
- Can be used with standard hot melt dispensing equipment
- Excellent clarity

BENEFITS

- Quick green strength allows parts to be moved immediately
- Long open time, long pot life and moderate application temperature offer a user friendly application
- High viscosity at room temperature resists flow of material which reduces sealant squeeze out and clean up

COMPOSITION

- Moisture curing, 100 percent silicone, reactive hot-melt sealant

Reactive hot-melt neutral cure RTV for assembly applications

APPLICATIONS

Dow Corning[®] HM-2500 Assembly Sealant is designed for use as an assembly sealant. This product utilizes hot-melt technology to dispense the material which utilizes silicone technology to achieve instant green strength when dispensed and cures to strong moisture cured silicone sealant.

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.

Method	Test	Unit	Value
CTM 0719	Viscosity at 250°F (120°C)	Poise	2100
CTM 0086	Nonvolatile Content	Percent	>98.5
CTM 0243	Open Time	Minutes	15
CTM 0243	Green Strength at 15 min	Psi	18
CTM 0243	Green Strength at 60 min	Psi	28
	Cure Time, 1/8" bead	Days	2
ASTM C661	Durometer – Shore A	Points	60
ASTM D412	Tensile Strength	Psi	350
ASTM D412	Elongation	Percent	1000
CTM 0044	Specific Gravity	Uncured	1.06
CTM 0176	Appearance		Water Clear
ASTM C711	Service Temperature Range	°F (°C)	-50 to 300 (-45 to 150)
ASTM D4498	Heat- Fail Temp in Shear	°F (°C)	470 (245)

CTM: Corporate Test Method, copies of CTM's are available on request.

ASTM: American Society for Testing and Materials.

DESCRIPTION

Dow Corning[®] HM-2500 Assembly Sealant is a 100 percent silicone, neutral cure sealant formulated to have an immediate green strength to offer assembly improvements and other production applications. Products made with this product can be immediately handled.

As a viscoelastic material when cured and then exposed to high temperatures this product will soften but recovers to its typical properties when cooled down.

LISTINGS/ SPECIFICATIONS

FDA Regulations 21 CFR 177.2600 for aqueous applications.

National Sanitation Foundation, (NSF) List 51 – Food and equipment materials aqueous and dry solids.

NSF 61 for use with potable water.

Recognized under UL QMFZ2.

HOW TO USE

Preparation

Surfaces should be clean and dry before sealant application.

Application

Dow Corning[®] HM-2500 Assembly Sealant is from 5 gallon pails or 55 gallon drums with a platen-type hot-melt pump. Application temperature is typically 250°F (120°C).

When the melt temperature has been reached, application with automated or hand-assisted dispensing equipment can begin. Once applied to the substrate the parts should be assembled within 15 minutes. Once applied, this product reacts with the atmospheric moisture to form a weather resistant, flexible, silicone sealant. Exposure of opened containers with air should be minimized.

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 material safety data sheet is available on the Dow Corning website at www.dowcorning.com. You can also obtain a copy from your local Dow Corning sales representative or Distributor or by calling your local Dow Corning Global Connection.

Material is applied at 250°F (120°C). Use common personal protective equipment to prevent contacting the hot material with skin or eye.

USABLE LIFE AND STORAGE

When stored at or below 90°F (32°C) in the original unopened containers, this product has a usable life of 12 months from the date of production. Refer to product packaging for "Use by Date".

PACKAGING

This product is available in 50 gram cartridges, 304 ml cartridges, 18 kg pails, 27 kg pails and 205 kg drums.

LIMITATIONS

Dow Corning[®] HM-2500 Assembly Sealant is not intended for use:

- In spaces totally confined from atmospheric moisture during cure
- In continuous water immersion
- On surface that might bleed oils, plasticizers or solvents

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 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 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.

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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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