

RTF5308

Neutral Cure, One-Part RTV Sealant

Description

RTF5308 sealant is a neutral cure, one-component, ready-to-use silicone adhesive sealant that cures to tough resilient silicone rubber on exposure to atmospheric moisture at room temperature.

This sealant is a standard curing paste consistency product that can be broadly applied to horizontal, vertical and overhead surfaces.

Key Features and Typical Benefits

- Primer-less adhesion to most commonly used metals and plastics
- Non-corrosiveness with most commonly known substrates
- Low odor, room temperature cure
- Single-component product; no required mixing
- Retention of elastomeric properties at temperatures of -60°C to 204°C for long periods and to 260°C for short periods
- Efficient electrical insulation properties
- Excellent UV, chemical, and weather resistance

Potential Applications

- Electronic enclosures
- Protection and weatherproofing of under-hood assemblies
- Door modules
- Sealing of forward and rear lighting

Typical Physical Properties

Properties (23°C, 50%RH)		RTF5308 Sealant
Appearance		Translucent
Specific Gravity	g/cm ³	1.04
Application Rate	g/min	290
Tack Free time	Mins	18
Hardness	Shore A	22
Tensile Strength	psi	305
Elongation	%	485

Typical properties are average data and are not to be used as or to develop specifications.

GENERAL CONSIDERATIONS FOR USE

Surface Preparation

RTF5308 sealant can bond to many clean surfaces without the aid of primers such as most commonly used metal, glass, ceramic, and silicone rubber, as well as some rigid plastics.

Surfaces should be thoroughly cleaned with a compatible solvent to remove dirt, oil, grease and surface contaminants. The surface should be wiped dry before applying the adhesive sealant.

Due to substrate variability, a preliminary evaluation should be conducted to determine whether acceptable bond strength develops for each specific application. For difficult to bond substrates, use of a primer may be necessary. SS4004P, SS4044P and SS4179 primers from Momentive are generally compatible with these sealants. For primer details and usage instructions, please refer to the appropriate product data sheet.

Application and Cycle Time

Where large surfaces are to be mated, the sealant should be applied in a thin diameter (less than 6mm [1/4 inch]) bead or ribbon around the edge of the surface to be bonded.

The cure process begins with the formation of a skin on the exposed surface of the sealant and progresses inward through the material. At approximately 25°C (77°F) and 50% relative humidity, RTF5308 sealant will typically form a surface skin that is tack-free to the touch in about 15-25 minutes. Once the tack-free skin has begun to

form, further tooling of the adhesive sealant is not recommended.

Actual cure time is primarily dependent upon atmospheric temperature and humidity, as well as sample thickness and sealant configuration. Because this adhesive sealant cures by reacting with atmospheric moisture, the cure rate will generally increase as temperature and humidity levels rise, and decrease as temperature and humidity levels fall.

Physical Property Development

In addition to the effects of temperature and relative humidity, development of maximum bond strength will primarily depend on joint configuration, degree of confinement, sealant thickness and substrate porosity. Normally, sufficient bond strength required for part handling will develop in 12-24 hours for RTF5308 sealant. Stress should not be applied to the bonded joint until full adhesive strength has developed. Allow the maximum possible amount of cure time for best results.

PACKAGING

- 5 gallon pail
- 55 gallon drum

Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

Product Safety, Handling and Storage

Customers should review the latest Safety Data Sheet (SDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, emergency service contact information, and any special storage conditions required for safety. Momentive Performance Materials (MPM) maintains an around-the-clock emergency service for its products. SDS are available at www.momentive.com or, upon request, from any MPM representative. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center. Use of other materials in conjunction with MPM products (for example, primers)

may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

Limitations

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

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