



P.O. Box 2128, Oak Park, Illinois USA 60303 tel: (248) 933-8601 www.fastechadhesives.com

Product Description

FasTech RTV100 is a 1-part, moisture cure 100% silicone sealant designed for extreme temperature sealing applications. RTV100 cures to form an extremely durable seal that can withstand extreme heat and cold exposure while maintaining its physical properties.

Due to the formulation, FasTech RTV100 can resist constant temperatures up to 500F and intermittent exposure to 600F.

FasTech RTV100 meets requirements of FDA Regulation 21 CFR 177.2600 for food grade applications. RTV100 silicone can be applied to vertical and overhead joints without sagging. It will bond to most common building materials (see list on Pg 2 of this TDS).

Conforms to:

- ASTM C290 Class 25, Type S, Grade NS, Use NT, G, O
- TT-S-01543A
- TT-S-00230-C
- MIL-A-46 106A
- FDA Regulation No. 21 CFR 177.2600
- VOC Compliant (23 grams/liter) ASTMD2369
- Non-flammable/ FR regulatory standards

Physical Properties

Basic Material	100% Acetoxy RTV Silicone
Consistency	Mastic/ Non-sag
UV Stability	Resists UV degradation
Weather stability	Withstands extreme heat and cold -50F – 500F
Components	1
Color	
Specific Gravity	1.03
Solvent Percentage	0
Expansion/ Shrinkage	25% joint movement
Shelf Life	12 months in unopened containers stored between 60° and 80° F.

Performance Properties

Tensile Strength	264 psi	ASTM D 412
Elongation at Break	500%	ASTM D 412
Hardness Shore A	25 (14-day Cure)	ASTM C-661
Initial Skin Formation	10 minutes	70F/ 50%
Slump (sag)	Zero Slumping	ASTM C-639
Viscosity	902,000 cps	Sp#4, 20rpm
QUV Testing	Pass 10K hours	ASTM-G154
Density	8.5 lbs./gal	ASTM D1475
Extrusion Rate	365 grams/ min.	40 psi @ 5mm
Service Temperature	-70°F to 400°F	

Common Applications

- Industrial Ovens
- RV & Trailer Manufacturing
- Sealing heating elements
- Formed-in-place Gasketing
- Industrial Manufacturing (MRO)
- High temp gasketing
- HVAC Applications
- Spas/ Hot Tub manufacturing
- Fireplace Manufacturing
- Appliance Manufacturing
- Sheet Metal Work and Sealing
- General Sealing and Bonding

Directions

RTV 100 is ready to use and requires no mixing or additives. Tooling, if required, should be done before skinning occurs. In applications where partial or total confinement of sealant is prevalent, the time for proper cure is generally lengthened by the degree of confinement. Higher temperature and high humidity will shorten cure time and colder and drier conditions will lengthen cure times.



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Clean Up

Wet adhesive can be cleaned with FasTech Adhesives Remover and Cleaner. Dry sealant can be removed by scraping and abrading.

Colors

RTV100 is available in Red as standard. Other colors available upon request.

Packaging

RTV100 is stocked in squeeze tubes, cartridges, pails and drums. Additional packaging may be available upon request.

Caution/ Safety

Please refer to the SDS for corresponding product for information regarding safety and handling.

Common Bonding Substrates

RTV100 can be used on a variety of surfaces/materials. Please test your substrates before use. We have listed some common substrates that are typically compatible with RTV100:

- Glass
- Granite
- Marble
- Metal
- Most wood species
- Most fiberglass grades
- Aluminum
- Ceramic
- Natural/ Synthetic fiber
- Most painted surfaces
- Some plastics

Surface Preparation

All surfaces should be dry and clean. Alcohol and acetone can be used to clean the surface depending on substrate. If a primer is required, please contact your FasTech representative for guidelines. Unprimed adhesion can easily be tested by applying a small bead to the surface and allowing to cure for 7 days for maximum adhesion to develop.

Testing

Test per application requirements. Allow 7 days to allow maximum strength adhesion to develop.

Storage

When stored at 70F ad 50% RH, RTV100 has a shelf-life of 12 months. High temperatures and high humidity conditions can shorten the shelf-life.

Warranty Limitations

The information and data contained herein is believed to be accurate and reliable, however, it is the sole responsibility of the user to determine suitability of use. Since FasTech cannot know all the uses and conditions of use to which our products may be exposed, no warranties concerning the fitness or suitability for a particular use or purpose are made. It is the users responsibility to thoroughly approve any proposed use or our products and independently conclude satisfactory performance in the application. Likewise, if the application, product specifications, or manner in which our products are used required government approval or clearance, it is the sole responsibility of the user to obtain such authorization. Because the storage, handling and application of the material is beyond FasTech's control, we cannot accept liability for the results obtained. FasTech's sole limited warranty is that the product will meet the manufacturing specifications in effect at the time of shipment. There is no warranty of merchantability or fitness of use, not any other express or implied warranty. FasTech will not be liable for incidental or consequential damages of any kind. The exclusive remedy for breach of such limited warranty is refund of purchase price or replacement of any product shown to be other than as warranted. Suggestions of uses should not be taken as inducements to infringe upon any patents.