



Technical Data Sheet

RD Pro 100% Industrial Grade Heat Resistant RTV Silicone: 0809/OI, 0829/OI

Description

A one-component, non-slumping 100% silicone sealant that cures to a rubbery solid @ room temperature upon exposure to water vapor in the air. Formulated to perform @ temperatures to 500F continuous & 600F intermittent exposure.

Key Features

- Improved Heat Resistance
- Red Color for Easy Identification
- Spec Compliant
- VOC Compliant
- Extremely Durable
- Tenacious Adhesion to Non-Porous Substrates

Uses

Use to seal oven belts, heating elements in appliances, flanged pipe joints, fired heaters, access doors, drying vents & other applications for an Acetoxy cure silicone, where a little extra heat resistance is required. Adheres to Glass, Fiberglass, Non-oily woods, Most metals, Porcelain, Ceramic tile, Most painted surfaces, Many plastics & rubbers.

Surface Preparation

Surface must be clean, dry & free from dirt, dust, grease, oil, mildew, wax, loose paint & old sealant. Prime bare surfaces before caulking for best results. Remove mildew by scrubbing with a solution of 4 oz TSP (Trisodium Phosphate), 1 quart of liquid bleach mixed with 3 quarts of warm water. Protect eyes & hands by wearing goggles & chemical resistant gloves. Thoroughly rinse surface & allow to dry completely before sealant application.

Directions

1. Clip off tip of spout @ a 45 degree angle to desired size.
2. Load cartridge into caulking gun & apply using steady, even pressure to completely bridge joints (use backer rod for deeper joints).
3. Smooth caulk using a finger, caulk smoother or back of a spoon dipped in soapy water solution.
4. Wipe away excess with a cloth or paper towel prior to cure.
5. Protect from exposure to rain or water until cured (24 hrs) – cures @ rate of approximately 1/8 inch every 24 hrs.

<u>Physical/Performance Property</u>	<u>Test Method</u>	<u>Typical Result</u>
Weight Per Gallon	Gardner Cup	8.50
Specific Gravity	Calculated	1.02
Total Non Volatile % Solids (Weight)	Computrac Analyzer	98% +/- 1.5
Extrudability/Application (as packaged)	Semco Gun (6 oz @ 50 psi)	45 sec +/- 10
Consistency/Appearance	Visual Observation	Smooth, viscous paste
Odor	Subjective	Acetic Acid (Vinegar)
Base Polymer	Known	Proprietary Siloxane Blend
Pigment	Known	Fumed Silica/Red Iron Oxide
Flash Point	Closed Cup	Non-Flammable
Freeze/Thaw Stability	Test Lab 0 F/77 F @24 hrs or ASTM C731	Passes 5 Cycles
Shelf Life	Lab 50 C Oven – Accelerated	2 Years @ 72F
Slump	ASTM D2202 Jig	0
Artificial Weathering	ASTM – QUV Tester	No cracking @ 10,000 hrs QUV
Flexibility	ASTM 734	Pass @ < -15F
Tack Free Time	ASTM D2377	<30 minutes
Shore A Hardness	ASTM D2240	28
Storage Conditions	Test Lab	40F to 90F
Application Temperature	Test Lab	10F to 100F
Service Temperature	Lab Oven/QUV/Freezer/OE Fence	-60F to 500F (600 Intermittent)
Tooling	Test Lab/Field Evaluation	Excellent
Paintability	Test Lab/Field Evaluation	Not Paintable
Joint Movement	Test Lab	+/- 25%
Weight Loss	TT-S-001543A	5% Max
Peel Strength (Glass/Concrete)	TT-S-001543A, 3.5.9	45 ppi/40 ppi
Elongation @ Break	Test Lab; D-412	600 to 700%

Clean Up

Mineral Spirits before cure. Can also wipe well w/ dry paper towel or dry cloth prior to cure. After cure, use razor cutter carefully. Do not under-cut seal/bond to substrate.

For Best Results

- Thoroughly clean & degrease metal & plastic surfaces. Rubber surfaces should be roughened w/ sandpaper prior to solvent wipe. For a stronger, more uniform bond apply a thin film of Dow Corning 1200 Prime Coat (or equiv.) to all surfaces except rubber & silicone rubber & allow to air dry for 30 to 45 minutes @ room temperature (see full instructions on 1200 Prime Coat label)
- Complete all painting prior to sealant application – sealant not paintable

Color

Red

Packaging

HDPE Cartridge, Squeeze Tube

Limitations

- Dow Corning 1200 Prime Coat is flammable & not suitable for use in food contact applications – keep away from heat, sparks & open flame & use only w/ adequate ventilation.
- Sealant not paintable
- Not recommended for marine use (continuous under water immersion), mirrors, materials that bleed oils, solvents or plasticizers, unpredictably porous surfaces or heavy traffic bearing joints.
- Not recommended for application in totally confined areas as atmospheric moisture is required for cure.
- Sealant does not adhere well to Teflon coated materials, polyethylene, polypropylene or methylmethacrylate (Plexiglas)
- Not for use on or near sensitive metals such as copper, brass, zinc, carbon steel, galvanized iron or magnesium as corrosion may occur during acetic acid release/sealant cure.

Environmental, Safety & Transportation Information

<u>Criteria</u>	<u>Evaluation Method</u>	<u>Status</u>
CARB Compliance	Documents Review	Yes
Prop 65 Ingredients	Documents Review	None
DOT Proper Shipping Name	Review of Regs	Not Regulated by DOT
DOT Hazard	Review of Regs	N/A
DOT UN/NA Number	Review of Regs	N/A
Packing Group	Review of Regs	N/A
VOC Content	Calculated	< 3%/wt, < 40 g/L

CAUTION: NOT FOR INTERNAL CONSUMPTION. KEEP OUT OF REACH OF CHILDREN & PETS. KEEP FROM FREEZING. (See MSDS for additional information)

LIMITED WARRANTY

Recommendations for use of this product are based on tests we believe to be reliable. Manufacturer and seller are not responsible for results where this product is used under conditions beyond our control. If when applied as directed, this material peels, cracks or separates, it will be replaced without charge upon presentation of proof of purchase and used cartridge. This limited warranty only applies to residential use and damages including consequential damage and other remedies are excluded. No other warranties apply, including fitness for a particular purpose.

PERFORMANCE SPECIFICATIONS

TT-S-00230C Class A, CEBTP 432.6 140-2, Mil Spec 46106A, CGSB 19C9-9B, DIN 18540 Part 2, TT-S-001543A, OREX 150031-2, ASTM C920-02 Class 25, FDA No. 21 CFR 177.2600 (This product is appropriate for incidental food contact in federally inspected meat & poultry plants). Conforms to Food & Drug Administration requirements. Underwriters Laboratories Recognized Component.

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SEE MSDS FOR ADDITIONAL DATA/INFORMATION