

Technical Data Sheet

RD PRO Silicone Sealant -0816/OI, 0826/OI Series

Description

A high-performance 100% silicone sealant ideal for Industrial, OEM & Maintenance applications. Spec-compliant formula available in Clear, White & various other colors. Cures upon exposure to moisture in the air. Not paintable.

Key Features

- Meets various performance specifications: ASTM C920 Class 25, Fed Specs TT-S-00230C Class A and TT-S-001543A, CEBTP 432.6 140-2, Mil Spec 46106A, CGSB 19C9-9B, DIN 18540 Part 2, OREX 150031-2.
- **Underwriters Laboratories Recognized Component**
- **NSF Listed Product**
- Meets requirements of FDA regulation Code of Federal Regulations 21 CFR concerning food contact applications if used in accordance w/ 21 CFR Sec. 177.2600. "Rubber articles intended for repeated use".
- **Tenacious Adhesion**
- **VOC Compliant**

Uses

Ideal for making formed-in-place gaskets, product provides excellent adhesion to Glass, Fiberglass, Non-oily woods, most metals, Porcelain, Ceramic Tile, Most painted surfaces, many plastics & rubbers.

Surface Preparation

Surface should be completely clean, dry & free of contaminants such as dirt, dust, grease, oil & other residue or material that may interfere with adhesion. 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/face shield & chemical resistant gloves. Thoroughly rinse surface & allow to dry completely prior to sealant application.

Directions

- 1. Clip off tip of spout @ a 45 degree angle to desired
- Apply using steady, even pressure to completely bridge joints.
- Smooth sealant for a neat appearance.
- Wipe away excess with a dry cloth or towel before surface skins.
- After cure, carefully remove with a razor blade, taking care not to undercut sealant bond to substrate or apply Red Devil Caulk Remover & follow label directions.

Physical/Performance Property Weight Per Gallon Specific Gravity Total Non Volatile % Solids (Weight) Extrudability/Application (as packaged) Consistency/Appearance Odor

Base Polymer Pigment/Filler Freeze/Thaw Stability

Shelf Life

Slump Artificial Weathering Low Temperature Flexibility

Tack Free Time **Cure Time** Shore A Hardness

Elongation @ Break/Ultimate Tensile

Storage Conditions Application Temperature Service Temperature

Tooling Paintability Joint Movement Capability

Dielectric Strength

Dielectric Constant Dissipation Factor Volume Resistivity (X CM)

Coverage

Test Method Gardner Cup Calculated

Computrac Analyzer Semco Gun (6 oz @ 50 psi) Visual Observation

Subjective Known Known

Test Lab 0 F/77 F @24 hrs or ASTM C731 Lab 50 C Oven - Accelerated

ASTM D2202 Jig ASTM - QUV Tester ASTM D746

ASTM D2377

Test Lab (77F/25C 3 mm thickness)

ASTM D2240 Instron Tensile Tester

Test Lab Test Lab

Lab Oven/QUV/Freezer/OE Fence Test Lab/Field Evaluation Test Lab/Field Evaluation

Test Lab

Test Lab (D887/D149)

Test Lab (D924/D150 @ 1 MHZ) Test Lab (D924D150 @ 1 MHZ

Test Lab Test Lab Typical Result 8.50 +/- 0.50 0.96 to 1.08 > 93% 60 seconds +/- 10 Smooth, viscous paste Vinegar (Acetic Acid) Proprietary Siloxane blend Amorphous Fumed Silica

Passes 5 Cycles Minimum 1 Yr @ 72F

No Change @ 5,000 hrs QUV

Pass 20 minutes

24 hrs (cures approx 1/8 in/24 hrs) 27 +/- 3

500% minimum/450psi +/- 25 psi

40F to 90F - Original Container

10F to 100F

-60F to 400F (Inter. 500F full cure) Excellent @ 5 to 10 minutes

Not Paintable

+/- 25% (50% Total Movement)

22 KV/MM 2.7 0.002

2 X 10 to the 15th power ~ 55 linear feet @ 3/16" bead

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Website: www.reddevil.com Page 1 of 2

Clean Up

Wipe excess with dry towel or paper towel prior to cure. Wash skin with mild soap & water. Clean tools with mineral spirits prior to cure. Cured sealant may be removed using a razor blade taking care not to undercut seal to substrate.

For Best Results

- Complete all painting prior to sealant application (sealant not paintable)
- Avoid applications of total confinement as sealant cures through contact with atmospheric moisture.
- Complete tooling of applied bead within 5 to 10 minutes.
- If masking tape is used to assure a straight edge bead it must be removed prior to formation of tack free skin (typically 10 to 20 minutes).
- Use with adequate ventilation as sealant gives off acetic acid (vinegar-like odor) during application & cure. (No odor present following complete cure)
- Applications involving confinement should be evaluated fully prior to commercialization, as atmospheric moisture (humidity) is required for cure to take place.

Color

Clear (Translucent), White, Almond, Bronze, Gray, Black

Packaging

10.1 oz. HDPE Cartridge, 2.8 oz. metal squeeze tube

Limitations

- Sealant not paintable. Complete all painting prior to sealant application.
- Not recommended for full-time water immersion applications.
- Not recommended for application in totally confined areas as atmospheric moisture is required for sealant 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 sealant's acetic acid release.

Environmental, Safety & Transportation Information

Status Criteria **Evaluation Method** Yes CARB Compliance Documents Review None Prop 65 Ingredients Documents Review Not Regulated by DOT **DOT Proper Shipping Name** Review of Regs N/A DOT Hazard Review of Regs N/A DOT UN/NA Number Review of Regs N/A Review of Regs Packing Group < 3%/wt, < 30 g/L **VOC Content** Calculated

CAUTION: NOT FOR INTERNAL CONSUMPTION. KEEP OUT OF REACH OF CHILDREN & PETS. KEEP FROM FREEZING. DIRECT CONTACT WITH UNCURED SEALANT IRRITATES EYES & MAY IRRITATE SKIN. SEVERITY INCREASES WITH PROLONGED CONTACT. OVEREXPOSURE TO VAPOR MAY IRRITATE EYES, NOSE & THROAT. AVOID BREATHING OF VAPOR. PROVIDE ADEQUATE VENTILATION TO MAINTAIN VAPORS BELOW DISCOMFORT LEVEL. IN CASE OF INHALATION ILL EFFECTS, REMOVE TO FRESH AIR. SEALANT RELEASES ACETIC ACID VAPOR (VINEGAR ODOR) DURING APPLICATION & CURE. DO NOT HANDLE CONTACT LENSES WITH SEALANT ON HANDS. FULLY CURED SEALANT IS NON-HAZARDOUS. (See MSDS for additional information)

Contains Titanium Dioxide; added to Massachusetts Right to Know List, Minnesota Hazardous Substance List, New Jersey Right to Know List, Pennsylvania Right to Know List & Rhode Island Hazardous Substance List.

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.

TDS Number: 0816/OI, 0826/OI Series TD

Date of Issue: January 16, 2014 (Reduced VOC's g/L to 30 g/L)

SEE MSDS FOR ADDITIONAL DATA/INFORMATION

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