TECHNICAL DATA SHEET

RDPRO 100% RTV SILICONE SEALANT

HEAT RESISTANT

DESCRIPTION

Advanced high-performance formulated with iron oxide to resist extreme heat exposure. This one-component, non-slumping sealant cures to a rubbery solid a room temperature. Capable of withstanding temperatures up to 600° F, and can be used on industrial ovens, heating elements, boilers, and more.

PART #	PACKAGE	COLOR	UPC
08090I	10.1 oz (300 ml) Cartridge	Red	075339008096
08290I	2.8 oz (83 ml) Tube	Red	075339829011

KEY FEATURES

- Withstands Temperatures Up To 600° F
- Meets or Exceeds Federal Specifications
  - TT-S-001543A Class A
  - TT-S-00230C Class A
  - ASTM C920 Class 25
  - Mil Spec. 46106A, CEBTP 432.65 140-2
- UL Recognized
- Mold & Mildew Resistant - Waterproof
- Resistant to UV Degradation and Weathering
- Remains Flexible & Resists Vibration
- Interior/Exterior
- VOC Compliant

USES

Excellent Sealant/Adhesive for many Industrial-Construction applications. Industrial Ovens, Sealing Heating Elements, Formed-in-Place Gasket Applications, HVAC, High Temperature Gasket Applications, Fireplace Manufacturing, Encapsulating & Coating Temperature Sensitive Parts.

ADHERES TO

Metal, Aluminum, Glass, Ceramic, Porcelain, Marble, Granite Fiberglass, Most Types of Wood, Some Plastics, Painted Surfaces, Non-oily Surfaces, Brick, Stone, Masonry, and many other common building materials.

CRITERIA	STATUS
CARB Compliance	Yes
Prop 65 Ingredients	Yes (See SDS)
DOT Proper Shipping Name	Not Regulated by DOT
DOT Hazard	None
DOT UN/NA Number	None
Packing Group	None
VOC Content	< 3% by weight, < 30 g/L

SURFACE PREPARATION

Surface must be clean, dry & free from dirt, dust, grease, oil, mildew, wax, loose paint, frost & old caulking. Alcohol or Acetone can be used to clean the surface depending on the substrate. Since porous materials can absorb and retain moisture, it is very important that all substrates are dry prior to application.

DIRECTIONS

1. Remove old caulking.
2. Clean and dry surface.
3. Clip off tip of nozzle/spout @ 45° angle to desired size.
4. Load cartridge into caulking gun and apply.
5. Smooth caulk using Red Devil Caulk Smoother, Red Devil Putty Knife.
6. Wipe away excess with a cloth or towel before surface skins over.
7. After cure (24 hrs.), carefully remove excess with a razor blade, taking care not to undercut sealant bond.

FOR BEST RESULTS

- Store at temperatures above freezing, below 70° F.
- Best application temperature range, 10° F to 100° F.
- Allow 7 days for maximum strength to develop before testing adhesion or strength.

CLEAN UP

Clean excess uncured sealant from surfaces and tools with mineral spirits. Excess cured sealant must be cut or scraped away. Wash hands or skin with mild soap & water.

LIMITATIONS

- Sealant not Paintable. Complete all painting prior to sealant application.
- Sealant does not adhere well to Teflon coated materials, Polyethylene, Polypropylene or Methylmethacrylate.
- Do not store at elevated temperatures.

Red Devil

RDI

50 YEAR DURABILITY GUARANTEE

TECHNICAL DATA SHEET

RDPRO 100% RTV SILICONE SEALANT

HEAT RESISTANT

PHYSICAL/PERFORMANCE PROPERTY	TEST METHOD	TYPICAL RESULT
Weight Per Gallon	Gardner Cup	8.50
Specific Gravity	Calculated	Approx. 1.602
Total Non-Volatile % Solids (Weight)	Computrac Analyzer	> 98% +/- 1.5
Extrudability/Application	Semco Gun (6 oz. @ 50 psi)	45 Seconds +/- 10
Consistency/Appearance	Visual Observation	Smooth, Viscous Paste
Flash Point	Closed Cup	Non-Flammable
Odor	Subjective	Vinegar (Acetic Acid)
Base Polymer	Known	Proprietary Siloxane Blend
Filler/Pigment	Known	Fumed Silica/Red Iron Oxide
Slump/Sag	Test Lab	0
Freeze/Thaw Stability	Test Lab 0F/77F @ 24 hrs. or ASTM C731	Pass 5 Cycles
Shelf Life	Lab 50 C Oven – Accelerated	2 Yrs. @ 72F
Tack Free Time	ASTM D2377	< 30 minutes
Full Cure	Test Lab	24 Hours
Storage Conditions	Test Lab	Original Container: 40F to 90F
Application Temperature	Test Lab	10F to 110F (-12C to 38C)
Elongation at Break/Ultimate Tensile	Instron Tensile Tester	600% to 700%
Joint Movement Capability	Test Lab	+/- 25%
Service Temperature	Test Lab	-60F to 500F (-51C to 260C) (600 Interm)
Tooling	Test Lab	Excellent

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

⚠ **WARNING: Cancer and reproductive harm – www.P65Warnings.ca.gov**

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.