

**DP**

# 503 HIGH TEMP RED 100% RTV SILICONE SEALANT

**A high-performance HVAC, industrial, commercial, and residential construction grade 100% Acetoxy RTV Silicone adhesive/sealant that can withstand extreme heat while maintaining its physical properties. DP 503 has excellent resistance to aging, weathering, and UV degradation. DP 503 will provide long term performance on both interior and exterior applications without sagging or slumping.**

### Recommended Uses:

**DP 503** is recommended on a variety of HVAC substrates including galvanized steel, stainless steel, aluminum, wood, fiberglass, PVC, PVS, and painted substrates.

**DP 503** is an excellent sealant and adhesive for many commercial, industrial, and construction applications where a long-term, permanently flexible seal/bond is required.

**DP 503** may also be used for high temperature gasketing applications, fireplace manufacturing, appliance manufacturing and sealing heating elements.

**DP 503** will not sag or slump and can be applied to both vertical and overhead substrates.

### Features and Benefits:

- **LEED V4** Qualified
- High Temperature
- Non-Slump, Non-Sag
- Mold and Mildew Resistant
- Low VOC
- Weather and UV Resistant
- Flexible, will not shrink or crack
- Indoor and Outdoor Usage

### Meets or Exceeds:

- ASTM C920 Type S, Grade NS, Class 25, Use NT, G, O
- ASTM G26
- TT-S 001543A, TT-S 00230C Type II
- FDA Regulation No. 21 CFR177.2600
- NSF Standard 51
- UL Recognized
- MIL-46106 TYPE 1

### Directions For Use:

**Surface Preparation:** Surfaces should be clean, dry and free of dirt, oil and any foreign matter.

**Application:** Trim nozzle to desired size and break the foil seal inside. Load cartridge into caulking gun. DP 503 can be tooled for up to 15 minutes after application. Under normal conditions, skinning will occur in 10-15 minutes with a full cure in 24 hours (1/8" bead) depending on application rate, humidity, and temperature conditions. The sealant generally reaches maximum adhesion in 7 days. Test per application requirements. High humidity accelerates curing. DP 503 sealant will release an odor until curing is complete.

### Technical Data:

**Colors:** High Temp. Red

**Base:** 100% RTV Silicone

**Viscosity:** Approx. 950,000 to 1,000,000 cps

**Skinning Time:** Approx. 10 minutes at 70°F, 50% RH

**Shore A Hardness:** 25

**Tensile Strength:** 265 psi

**Elongation:** 500%

**Gun Grade:** Pass, Non-Slump

**QUV Testing (ASTM G26):** Pass 10,000 hours

**Application Temperature:** -35°F to 150°F

**Storage:** Store in original unopened container below 90°F. High humidity and high heat can reduce shelf life.

**Service Temperature:** -50°F to 500°F. Intermittent Temperatures up to 600°F.

**Flammability:** Non-flammable wet or dry

**Flash Point:** No flash to boiling

**Shelf Life:** One Year (unopened container)

**Cure Time:** 24 hours at 1/8" bead, depending on temperature, humidity, and application

**Clean Up:** Uncured DP 503 can be cleaned with mineral spirits or denatured alcohol

**Painting:** DP 503 is not paintable

**Packaging:** 10 fl. oz. tubes

**VOC:** 23 g/l



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