



TECHNICAL DATA SHEET

2400 Boston Street | Suite 200 | Baltimore, MD | 21224

DAP® High Temp 100% RTV Silicone Rubber Adhesive Sealant

PRODUCT DESCRIPTION

DAP® HIGH TEMP SILICONE is a high-performance sealant designed especially for extreme high temperature applications. Provides a long-lasting weather resistant seal with supreme adhesion, flexibility, and durability. Adheres to most common building materials and remains flexible from 4.4°C to 288°C (intermittent). Meets Fed. Spec. TT-S001543A, ASTM C920, FDA Reg. No. 21 CFR 177.2600, and NSF/ANSI Standard 51. Safe for incidental food contact. Interior/exterior use.



PACKAGING	COLOR	SKU
300 mL	Red	7079874331

KEY FEATURES & BENEFITS

- 100% RTV silicone
- Remains flexible up to 288 °C (intermittent)
- Will not crack or shrink
- 100% waterproof/weather resistant seal
- Meets Fed. Spec. TT-S001543A and ASTM C920
- Certified by NSF to NSF/ANSI Standard #51
- It is safe for incidental food contact. When cured and washed, the product meets FDA Reg 21, CFR 177.2600
- Interior/exterior use



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SUGGESTED USES

USE FOR:

- Industrial ovens
- Oven belts
- Heating elements
- Oven windows
- Drying ovens
- Boilers
- Flanged pipe joints
- Flues
- Access doors
- Fired heater

ADHERES TO:

- Glass
- Ceramic
- Porcelain
- Marble
- Non-oily surfaces
- Fiberglass
- Most metals*
- Most plastics
- Painted surfaces
- Most common building materials

FOR BEST RESULTS

- Application temperature range is between -17°C to 37°C.
- Not recommended for continuous underwater use, filling butt joints, surface defects, tuck-pointing, chimneys, stovepipes or fireplace applications. Not recommended for structural glazing.
- Not for oily woods or cementitious surfaces. Substrates made of methylmethacrylate, polycarbonate, polypropylene, polyethylene and polytetrafluoroethylene do not allow for best adhesion and compatibility with sealant. Try test area before using.
- Corrodes some metals. *Not recommended for use on or near brass, copper or copper alloys, zinc, iron, galvanized metals or other surfaces prone to attack by weak acids.
- **Not paintable.** Paint surface substrate before applying sealant.
- Store below 26°C in dry place for optimal shelf life.

APPLICATION

Surface Preparation

Surface must be clean, dry, structurally sound and free of all old caulk, dirt, dust, & foreign material.

Product Application

1. Cut nozzle at a 45° angle to desired bead size.
2. Puncture inner foil seal.
3. Load into caulk gun.
4. Fill gap or crack with sealant.
5. If necessary, tool or smooth the bead of sealant with a finishing tool before the sealant skins over.



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- Clean up excess wet sealant from surface and tools with mineral spirits. Scrape or cut away excess dried sealant. Do not use mineral spirits to clean hands or skin. Wash hands or skin with soap and water.
- Reseal cartridge for storage and reuse.

TYPICAL PHYSICAL & CHEMICAL PROPERTIES

Typical Uncured Physical Properties	
Appearance/Consistency	Gunnable, non-sag paste
Base Polymer	Silicone rubber
Filler	Not applicable
Volatile	Not applicable
Weight % Solids	>97.0%
Specific Gravity	1.02
Odor	Vinegar-like
Flash Point	>100°C
Freeze Thaw Stability (ASTM C1183)	Will not freeze
Shelf Life	12 months
Coverage	15.5 linear metres at 5 mm bead size
Typical Application Properties	
Application Temperature Range	-17°C to 37°C
Tooling Time (Working Time)	10 minutes
Tack Free Time	15 minutes
Full Cure	24 hours
Return to Service Time	12 hours
Vertical Sag (ASTM D2202)	1.5 mm
Typical Cured Performance Properties	
Service Temperature Range	-40°C to 260°C with excursions to 288 °C
Water Ready Time	12 hours
Paint Ready Time	Not paintable
Mildew Resistance	Cured sealant is mold & mildew resistant
Dynamic Joint Movement (ASTM C719)	+/- 25%



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CLEAN UP & STORAGE

Remove excess uncured sealant from surfaces and tools with mineral spirits. Excess cured sealant must be cut or scraped away. Do not use mineral spirits to clean hands or skin. Wash hands or skin with soap and water. Store container in temperatures below 26°C and in a dry place.

SAFETY

See product label or Safety Data Sheet (SDS) for health and safety information. You can request a SDS by visiting our website at dap.com or calling **888-DAP-TIPS**.

WARRANTY

WARRANTY: DAP Canada, DAP Products Inc. and their respective affiliates will not accept liability for more than replacement product or sales price refund under any circumstances. ▸

COMPANY IDENTIFICATION

Manufactured for: DAP Canada, 475 Finchdene Square, Unit 5, Scarborough, ON, M1X 1B7

Usage Information: Call 888-DAP-TIPS or visit dap.ca & click on “Ask the Expert”

Order Information: 800-668-9397 or 416-321-1522

Fax Number: 416-321-3325

Also visit the DAP website at dap.ca