



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 -40°C to 260°C (285°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 285 °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 38°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 27°C in dry place for optimal shelf life.

APPLICATION

Surface Preparation

Surface must be clean, dry, structurally sound and free of all 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 or any other solvents to clean skin. Wash 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 linear meters at 5 mm bead size |
| Typical Application Properties | |
| Application Temperature Range | -17°C to 38°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 285 °C |
| Water Ready Time | 12 hours |
| Paint Ready Time | Not paintable |
| Mildew Resistance | Cured sealant is mould & 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 or any other solvent to clean skin. Wash 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