



# TECHNICAL DATA SHEET

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

## DAP® All Purpose RTV 100% Silicone

### PRODUCT DESCRIPTION

**DAP® ALL PURPOSE RTV 100% SILICONE** is a durable, 100% waterproof and weatherproof sealant for sealing out drafts, water and moisture around windows, doors, siding, gutters, flashing, pipes, vents and more. It stays flexible to withstand expansion and contraction without cracking or losing adhesion. Cured sealant is mold and mildew resistant. Interior/exterior use.



| PACKAGING           | COLOR       | UPC        |
|---------------------|-------------|------------|
| 10.1 fl oz (300 mL) | Clear       | 7079808650 |
| 10.1 fl oz (300 mL) | White       | 7079808651 |
| 10.1 fl oz (300 mL) | Black       | 7079808652 |
| 10.1 fl oz (300 mL) | Aluminum    | 7079808653 |
| 10.1 fl oz (300 mL) | Translucent | 7079808654 |
| 2.8 fl oz (82.8 mL) | Clear       | 7079808630 |
| 2.8 fl oz (82.8 mL) | White       | 7079808631 |
| 2.8 fl oz (82.8 mL) | Black       | 7079808632 |
| 2.8 fl oz (82.8 mL) | Aluminum    | 7079808633 |

### KEY FEATURES & BENEFITS

- When tested in accordance with ASTM C719 meets the ASTM C920, Type S, Grade NS, Use A&G
- 100% waterproof & weatherproof seal
- Stays Flexible
- Complies with FDA 21 CFR Part 175.300 making it safe for indirect food contact
- Interior/exterior use



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## SUGGESTED USES

### USE FOR CAULKING & SEALING:

- Windows
- Doors
- Siding
- Trim
- Pipes
- Vents
- Ducts
- Gutters
- Flashing
- Kitchen And Bath
- Countertops
- Sanitary Seals

### ADHERES TO:

- Wood
- Composite wood
- Aluminum
- Most metals\*
- Glass
- Marble
- Ceramic
- Porcelain
- Vinyl
- Fiberglass
- Most plastics & rubbers
- Most rubbers

## FOR BEST RESULTS

- Apply when surface temperatures are between -4°F to 120°F.
- Joint width should not exceed 1/2". If joint depth exceeds 1/2", use foam backer rod.
- Allow 24 hours for sealant to fully cure. Sealant will not cure in totally confined spaces.
- Not recommended for continuous underwater use, filling butt joints, surface defects, tuck-pointing, chimneys, stovepipes or fireplace applications. Not recommended for structural glazing.
- 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 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.
- **Not paintable.** Paint substrate surface before applying sealant.
- Store below 80°F in dry place for optimal shelf life.



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## APPLICATION

### **Surface Preparation**

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

### **Product Application**

1. If using squeeze tube, remove cap & cut nozzle at 45° angle to desired bead size. Unscrew nozzle & remove foil seal. Replace nozzle.
2. If using cartridge, cut nozzle at a 45° angle to desired bead size. Puncture inner foil seal. Load into caulk gun.
3. Fill gap or crack with sealant.
4. If necessary, tool or smooth the bead of sealant with a finishing tool before the sealant skins over.
5. Allow sealant to cure for at least 12 hours before exposing to water.
6. Do not touch or clean sealant for 24 hours. Sealant reaches full cure in 24 hours.
7. Clean up excess uncured sealant from surface and tools with mineral spirits. Scrape or cut away excess cured sealant. Do not use mineral spirits to clean hands or skin. Wash hands or skin with soap and water.
8. Sealant is not paintable. Paint surfaces prior to applying sealant.
9. Reseal cartridge/tube for storage and reuse.

## TYPICAL PHYSICAL & CHEMICAL PROPERTIES

| TYPICAL PHYSICAL & CHEMICAL PROPERTIES     |                                                                                                             |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| <b>Typical Uncured Physical Properties</b> |                                                                                                             |
| Appearance/Consistency                     | Smooth, gunnable paste                                                                                      |
| Base Polymer                               | Silicone rubber                                                                                             |
| Filler                                     | Not applicable                                                                                              |
| Volatile                                   | Not applicable                                                                                              |
| Weight % Solids                            | >97%                                                                                                        |
| Density (lbs per gallon)                   | 8.5                                                                                                         |
| Odor                                       | Vinegar like                                                                                                |
| Clean Up                                   | Mineral spirits                                                                                             |
| Flash Point                                | >212°F (>100°C)                                                                                             |
| Freeze Thaw Stability (ASTM C1183)         | Will not freeze                                                                                             |
| Shelf Life                                 | 18 months                                                                                                   |
| Coverage                                   | 10.1 oz: Up to 55 linear feet at 3/16" diameter bead<br>2.8 oz: Up to 15 linear feet at 3/16" diameter bead |
| <b>Typical Application Properties</b>      |                                                                                                             |
| Application Temperature Range              | -4°F to 120°F                                                                                               |
| Tooling Time (Working Time)                | 5-10 minutes                                                                                                |
| Tack Free Time                             | 10-20 minutes                                                                                               |



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|                                             |                                                                             |
|---------------------------------------------|-----------------------------------------------------------------------------|
| Full Cure                                   | 24 hours                                                                    |
| Return to Service Time                      | 12 hours                                                                    |
| Vertical Sag (ASTM D2202)                   | 0.05"                                                                       |
| <b>Typical Cured Performance Properties</b> |                                                                             |
| Service Temperature Range                   | -40°F to 350°F continuous use, up to 400°F intermittent use after full cure |
| Water Ready Time                            | 12 hours                                                                    |
| Paint Ready Time                            | Not paintable                                                               |
| Dynamic Joint Movement (ASTM C719)          | +/-25%                                                                      |

## 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 80°F 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](http://dap.com) or calling 888-DAP-TIPS.

## LIMITED WARRANTY

**LIMITED WARRANTY:** If product fails to perform when used as directed, call 888-DAP-TIPS within one year of date of purchase with your sales receipt and product container available for replacement product or sales price refund. DAP Global Inc. will not be responsible for incidental or consequential damages.

## COMPANY IDENTIFICATION

**Manufactured for:** DAP Global Inc., 2400 Boston Street, Baltimore, Maryland 21224

**Usage Information:** Call 888-DAP-TIPS or visit [dap.com](http://dap.com) & click on "Ask the Expert"

**Order Information:** 800-327-3339 or [orders@dap.com](mailto:orders@dap.com)

**Fax Number:** 410-558-1068

**Also, visit the DAP website at [dap.com](http://dap.com)**

3/3/2019