



TECHNICAL DATA SHEET

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

DAP® Silicone Ultra Aquarium Safe & All-Purpose Premium Waterproof Sealant

PRODUCT DESCRIPTION

DAP® Silicone Ultra Aquarium Safe & All-Purpose Sealant is a long-lasting, 100% silicone rubber sealant ideal for quick household repairs and projects. It forms a strong, 100% waterproof seal that won't crack or shrink. It is safe for incidental food contact, as well as being dishwasher and microwave safe. It is also ideal for building or repairing small aquariums and is harmless to fresh and saltwater fish when cured. Meets ASTM C920, Class 25. Interior/exterior use.



PACKAGING	COLOR	UPC
83 mL TUBE (2.8 fl oz)	Clear	7079874325

KEY FEATURES & BENEFITS

- Meets ASTM C920, Class 2.
- Forms a strong, waterproof seal.
- Flexible seal won't crack or shrink.
- Safe for incidental food contact. When cured and washed, the product meets the requirements of FDA Regulation No. 21 CFR 177.2600.
- Dishwasher & microwave safe.
- Aquarium safe – harmless to fresh and saltwater fish when cured.

SUGGESTED USES

USE FOR:

- Repairing porcelain, china, crystal, ceramics, jewelry
- Making crafts
- Repairing dishwasher seals.
- Mending campers, tents.
- Building & maintenance of aquariums



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ADHERES TO:

- Glass
- Ceramic
- Porcelain
- Canvas
- Most metals*
- Most plastics
- Most rubbers
- Brick
- Wood
- Fiberglass

FOR BEST RESULTS

- **Aquarium Limitations:** 30 gallons or less. 18" or less water height.
- When applying to hard rubber or plastic surfaces, lightly sand or roughen surface before application to maximize adhesion. When bonding two surfaces together, always clamp until cured, if possible.
- Joint width should not exceed 1/2". If joint depth exceeds 1/2", use foam baker rod.
- 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 recommended for 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 methyl methacrylate, polycarbonate, polypropylene, polyethylene and polytetrafluorethylene 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 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

Remove cap & puncture inner foil seal with other side of cap. Screw on nozzle and cut at 45° angle to desired bead size.

General Household Repairs (For aquariums go to the next section)

1. Apply thin coat of sealant to one side of broken article and hold together for five minutes.
2. If necessary, tool or smooth the bead of sealant with a finishing tool before the sealant skins over.
3. 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.
4. Allow sealant to cure for at least 12 hours before exposing to water.
5. Do not touch or clean sealant for 24 hours. Sealant reaches full cure in 24 hours. Sealant will not cure in totally confined spaces. When bonding two surfaces together, always clamp until cured.



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- When using sealant to form weatherstripping or other formed rubber parts, place wax paper over sealant to prevent sticking to mating piece until it has cured.
- Sealant is not paintable. Paint surfaces prior to applying sealant.
- Reseal tube for storage and reuse.

Aquariums

- Apply 1/4" bead of sealant to edge of glass. The bead must cover the thickness of glass edge.
- Set glass to base and repeat procedure on all sides. All joints must be GLASS TO SEALANT TO GLASS with no entrapped air bubbles.
- Apply additional sealant to inside joints.
- Complete tooling within 5 minutes.
- Remove excess uncured sealant with a dry paper towel.
- Sealant reaches full cure in 24 hours. Allow sealant to cure 48 hours prior to using aquarium. Optimum strength is achieved in 7 days. Sealant will not cure in totally confined spaces.
- When bonding two surfaces together, always clamp until cured.
- Reseal tube for storage and reuse.

TYPICAL PHYSICAL & CHEMICAL PROPERTIES

Typical Uncured Physical Properties	
Appearance/Consistency	Smooth paste
Base Polymer	Silicone rubber
Filler	Not applicable
Volatile	Not applicable
Weight % Solids	>97.0%
Density (lbs per gallon)	8.4
Odor	Vinegar-like
Flash Point	>100°C
Freeze Thaw Stability (ASTM C1183)	Will not freeze
Shelf Life	24 months
Coverage	15 linear feet at 3/16" bead size
Typical Application Properties	
Application Temperature Range	-37°C to 60°C
Tooling Time (Working Time)	5-10 minutes
Tack Free Time	10-25 minutes
Full Dry Through	24 hours
Return to Service Time	30 minutes



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Vertical Sag (ASTM D2202)	0.05"
Typical Cured Performance Properties	
Service Temperature Range	-40° to 176°C continuous use, up to 204°C intermittent use after full cure
Water Ready Time	12 hours
Paint Ready Time	Not paintable
Mildew Resistance	Cured sealant is mold & mildew resistant
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 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

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