



# Technical Bulletin

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## DAP® Premium Polyurethane Construction Adhesive Sealant

- Meets ASTM C920, Class 35
- Maximum Adhesion & Flexibility
- ± 35% Joint Movement
- 100% Waterproof Seal
- Excellent Weather Resistance
- Impact & Cut Resistant
- Paintable
- Indoor/Outdoor Use

**Packaging:** 10.1 fluid ounce cartridge (298 mL)  
**Colors:** White, Black, Gray  
**UPC No:** 7079874810, 7079874814, 7079874816

### Company Identification:

Manufactured for: DAP Canada, 475 Finchdene Square, Unit 5, Scarborough, ON. M1X 1B7  
Usage Information: Call 1-888-DAP-TIPS or visit [dap.com](http://dap.com) & click on “Ask the Expert”  
Order Information: 800-668-9397 or 416-321-1522  
Fax Number: 416-321-3325

### Product Description:

**DAP® PREMIUM POLYURETHANE CONSTRUCTION ADHESIVE SEALANT** is a one-part, moisture-curing, non-sag elastomeric commercial-grade sealant. It is specifically formulated to provide a long-lasting, durable seal when filling exterior gaps, joints & cracks. This high-performance sealant offers superior adhesion to most substrates and remains flexible to withstand up to ± 35% joint movement when installed into a properly prepared joint. Exceptional cut and tear resistance. Handles foot & vehicle traffic. Indoor/outdoor use.

### Suggested Uses:

*Ideal for use on:*

- Window frame & door perimeters
- Aluminum, vinyl or fiber-cement siding
- Expansion and control joints
- Fascia
- Ducts, vents, skylights
- Foundations, chimneys
- Horizontal & vertical joints
- Siding corner joints
- Pre-cast panels
- Tuck pointing
- Common roofing detail applications
- Flashing, eaves, downspouts

***Adheres To:***

- *Wood*
- *Metal*
- *Aluminum*
- *Stone*
- *Masonry*
- *Concrete*
- *Vinyl*
- *Stucco*
- *Fiberglass*
- *Brick*

**Performance Characteristics:**

- Meets or exceeds ASTM C920, Type S, Grade NS, Class 35. Use T, NT, O, M, G, I, A. CAN/CGSB 19.13-M87 and Federal Specification TT-S-00230C, Type II, Class A
- Certified to the NSF/ANSI Standard 61 for potable water
- 100% waterproof seal
- Maximum flexibility & adhesion
- Impact & cut resistant
- Adheres to most building materials without priming

According to the U.S. EPA and Health Canada, sealants can help limit the entry of radon through the foundation. It is also recommended that a professionally installed radon mitigation or fan based system be used in conjunction with this polyurethane sealant.

**Surface Preparation & Application:**

- Area must be structurally sound, clean, dry and free of all dirt, oil, grease or loose materials. Joint walls must be sound, clean, dry and frost-free. Depending on the joint surface, for best results it may require a thorough wire brushing, grinding, sandblasting, solvent washing and/or primer. A roughened surface will also enhance bond. Install bond breaker tape or backer rod to prevent bonding at base of joint. Taping sides of joint is recommended in any case where an extremely accurate match to the edge is desired. The tape can be removed without difficulty any time before sealant has skinned.
- Trim nozzle at a 45° angle to desired bead size.
- Puncture inner foil seal.
- Load cartridge into caulking gun.
- Fill gap with sealant, forcing sealant into joint.
- Tooling is recommended immediately after application to insure contact with the joint interface. Do not use alcohol. Do not tool with detergent or soap solutions.
- Excess sealant and smears adjacent to the joint can be removed with Xylol, Toluol or Mineral Spirits before cure.
- Product is tack free in 3-6 hours and will achieve full cure in 4-7 days, depending on joint depth, temperature and humidity.

***For Best Results:***

- Do not apply over damp or contaminated surfaces. Damp surfaces may cause bubbling within the sealant.
- Use with adequate ventilation.
- Apply in temperatures between 40°F to 100°F (4° to 38°C).
- For cold weather application, condition cartridges at 70°F (21°C) prior to use.
- Use cartridges the same day they are opened.
- Allow one week of cure at standard conditions when using in total water immersion situations.
- Do not use in swimming pools. Avoid exposure to high levels of chlorine (maximum continuous level is 5 ppm chlorine.)
- Do not use in contact with bituminous/asphaltic materials.

- Joint size should not exceed 1-1/2" (38mm) wide by 1/2" (13mm) deep. If joint exceeds 1/2" (13mm) depth, use closed cell polyethylene backer rod. Minimum joint size should not be less than 1/4" (6mm) by 1/4" (6mm) inch. Sealant should be installed when joint is at mid-range of its anticipated movement.
- Avoid contact with alcohol and other solvent cleaners during cure. Do not apply in the presence of curing silicone sealants.
- Allow sealant to fully cure before applying paint (approximately 4-7 days depending on temperature, humidity and depth of fill.)
- Before painting, test water, oil and rubber-based coatings for compatibility and adhesion.
- Priming not required for most construction materials.
- White color may yellow slightly when exposed to ultraviolet radiation.
- Polyurethane must be used within 12 months of manufacture date.

**Typical Physical & Chemical Characteristics:**

Solids:	96% minimum
Service Temperature Range:	-40°F to 170°F (-40° to 77°C)
Application Temperature Range:	40°F to 100°F (4° to 38°C)
Tack Free Time:	3-6 hours
Full Cure Time:	4-7 days depending on temperature, humidity, joint depth
Paintability:	Yes, after 1 week at standard conditions
Tear Strength (ASTM D624):	55 lb/in.
Shore A Hardness (ASTM D2240):	40
Tensile Properties (ASTM D412):	
21 day	Tensile Stress      175 psi (1.21 MPa)
	Elongation at Break   550%
	Stress at 100%
	85 psi (0.59 MPa)

Adhesion in Peel (TT-S-00230C, ASTM C794):

<u>Substrate</u>	<u>Peel Strength</u>	<u>Adhesion Loss</u>
Concrete	20 lb	0%
Aluminum	20 lb	0%
Glass	20 lb	0%

Chemical Resistance:	Good resistance to water, dilute acids and dilute alkalines.
Consistency:	Gun Grade
Shelf Life:	12 months
Coverage:	12.4 linear feet for 1/2" x 1/4" joint 3.8 linear meters for 12.7 mm x 6.4 mm joint

**Clean Up & Storage:**

Clean up with Xylol, Toluol or Mineral Spirits before cure. Do not use solvents to clean skin. Cured material must be cut or scraped away. Store away from extreme heat or cold.

**Safety:**

See product label and 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 by calling 1-888-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.

