



Technical Bulletin

2400 Boston Street, Suite 200, Baltimore, Maryland 21224
Phone: 410-675-2100 or 800-543-3840

Revised: 8/2/13

DAP[®] Premium Polyurethane Construction Adhesive Sealant

- Above or below waterline use
- +/-35% Joint movement
- Maximum adhesion & flexibility
- Superior durability & tear resistance
- Meets ASTM C920, Class 35
- 100% Waterproof seal
- Excellent weather resistance
- Impact & cut resistant
- Paintable

Packaging: 10.1 fluid ounce cartridge (300 mL)
Colors: White, Black, Gray
UPC No: 70798 18810, 70798 18816, 70798 18814

Company Identification:

Manufactured for: DAP Products Inc., 2400 Boston Street, Baltimore, Maryland 21224
Usage Information: Call 1-888-DAP-TIPS or visit dap.com & click on "Ask the Expert"
Order Information: 800-327-3339
Fax Number: 410-534-2650
Also, visit the DAP website at www.dap.com

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 70% total joint movement when installed into a properly prepared joint. Exceptional cut and tear resistance. Handles foot & vehicle traffic and may be used above or below waterline (including potable water applications).

Suggested Uses:

Ideal for use on:

- *Window and 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*

Outstanding Adhesion To:

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

Performance Characteristics:

- Meets or exceeds Federal Spec. TT-S-00230C, Type II, Class A and ASTM C920, Type S, Grade NS, Class 35. Use T, NT, O, M, G, I. CAN/CGSB 19.13-M87.
- 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

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 bond at base of joint. Taping sides of joint is recommended in any size where an extremely accurate match to the edge is desired. The tape can be removed without difficulty any time up to four hours after application of sealant.
- Trim nozzle at a 45° angle to desired bead size.
- Puncture inner foil seal.
- Load cartridge into conventional caulking gun.
- Fill gap with sealant, forcing sealant into joint.
- Tooling is recommended immediately after application to insure contact with the joint interface. Dry tooling is preferred. Do not use alcohol.
- Excess sealant and smears adjacent to the joint can be removed with Xylol or Toluol 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. Use with adequate ventilation.
- Apply in temperatures between 40°F – 100°F.
- For cold weather application, condition cartridges at 70°F prior to use.
- Store away from extreme heat or cold.
- Do not use in swimming pools
- Joint size should not exceed 1-3/4" wide by 1/2" deep. If joint exceeds 1/2" depth, use closed cell polyethylene backer rod. Minimum joint size should not be less than 1/4" by 1/4" inch. Sealant should be installed when joint is at mid-range of its anticipated movement.
- Avoid contact with alcohol and other solvent cleaners. Do not cure in the presence of curing silicone sealants.
- Allow sealant to fully cure before applying paint (approx. 4-7 days depending on temperature, humidity and depth of fill.)
- Priming not required for most construction materials.
- 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
Application Temperature Range:	40°F to 100°F
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):	21 day 40 +/-5
Tensile Properties (ASTM D412):	
21 day Tensile Stress	175 psi (1.21 MPa)
Elongation at Break	550%
Modulus of Elasticity	25% 35 psi (0.24 MPa)
	50% 60 psi (0.41 MPa)
	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, diluted acids and diluted alkalines.
Consistency:	Gun Grade
Shelf Life:	12 months
Coverage:	12.4 linear feet for ½” x ¼” bead
MSDS No:	00077348004, 00077350004, 00077352004

Clean Up:

Clean up with Xylol or Toluol before cure. Do not use solvents to clean skin.

Safety:

Read & understand all health & safety information & use instructions before opening & using this product. **MAY CAUSE ALLERGIC SKIN AND RESPIRATORY REACTION. VAPOR HARMFUL. HARMFUL IF SWALLOWED OR ABSORBED THROUGH THE SKIN.** May cause allergic skin and respiratory reaction and sensitization. Individuals with lung or breathing problems or prior reaction to isocyanates must not be exposed to vapors from polyurethane products. May cause eye, skin, nose and throat irritation. Repeated or prolonged exposure may result in permanent brain, liver, kidney, and Central Nervous System damage. **WARNING!** This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

PRECAUTIONARY MEASURES FOR USE, HANDLING, AND STORAGE: Do not breathe vapor. Use only with adequate ventilation. Avoid breathing vapors by opening windows and doors or use other means to ensure fresh air entry during application and drying. Avoid contact with eyes, skin and clothing. Wear protective gloves and eye protection with side shields. Wash thoroughly after handling. Keep container closed when not in use. Do not heat or expose to fire. See product label and Safety Data Sheet (SDS) for health and safety information. You can request an SDS by visiting our website at www.dap.com or by calling 888-DAP-TIPS.

LIMITED WARRANTY: If product fails to perform when used as directed within one year of purchase, return used container & sales receipt to DAP Products Inc., Tech. Cust. Service, 2400 Boston Street, Baltimore, MD 21224 for replacement product or sales price refund. DAP will not be liable for incidental or consequential damages.