



# Technical Bulletin

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

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## DAP® SMARTBOND™ LANDSCAPE CONSTRUCTION ADHESIVE

- **8X the coverage of a 28 ounce adhesive cartridge**
- **25% faster to install**
- **Unique foam collapses to form a high strength adhesive gel**
- **Polyurethane Technology for Structural bonding power**
- **Bonds to all hardscape block materials**
- **Achieves working strength in as little as two hours. Full cure in 24 hours**
- **Exceeds ASTM C-557**

**Packaging:** 20 OZ. (567 mL) aerosol can  
**Color:** Gray  
**UPC Number:** 0 70798 00052 0

### Company Identification:

Manufactured For: DAP Products Inc., 2400 Boston St., Suite 200, Baltimore, Maryland 21224  
Usage Information: Call 1-888-DAP-TIPS or visit [dap.com](http://dap.com) & click on DAP Tips® then "Ask the Expert".  
Order Information: 800-327-3339  
Fax Number: 410-558-1068

### Product Description:

**DAP® SMARTBOND™ Landscape Adhesive Construction Gel** is a unique technology that applies as a foam and transforms by collapsing into a high-strength, fast-curing adhesive gel. It develops a strong, durable and permanent bond to landscape blocks, synthetic stone, wood, concrete, treated wood and other hardscape materials. Use for permanent, structural installation of retaining walls, garden walls and water feature perimeters.

### Suggested Uses:

Bonds:

- Landscape block
- Synthetic stone
- Wood
- Concrete
- Treated Wood
- Brick
- Stone

### **Surface Preparation & Application:**

**SAFETY FIRST! PRODUCT IS EXTREMELY FLAMMABLE WHEN DISPENSING.** Before using, read & understand all health & safety information/product use instructions found below.

### **INSTRUCTIONS:**

1. Never leave applicator gun without completely shutting off its control knob.
2. Keep fingers off the trigger until ready to apply.
3. Never point the nozzle at yourself or others.
4. Always assume applicator gun is pressurized.
5. Make sure applicator gun's control knob is shut off before you begin working.
6. Surface must be clean, dry and free of dirt, dust and other contamination.
7. Always wear safety glasses, gloves & protective clothing during use.
8. Shake can well before using & intermittently during use.
9. Attach adhesive applicator gun on to canister. Do not over tighten. Ensure threads are aligned to prevent leakage.
10. Slowly adjust and set control knob to for desired flow.
11. Slowly pull trigger to release foam.
12. Apply a continuous bead to substrate, with nozzle slightly above work surface. Product works best on horizontal surfaces. Not for overhead use. Clamping or bracing may be needed.
13. Within 8 minutes, position & press substrates firmly into place.
14. Shake can intermittently while dispensing.
15. Full cure in 24 hours.

**Storage:** Store gun attached to partially used foam canister for up to one month. If longer storage is required, remove applicator from canister and clean as directed. Shelf life of DAP® SMARTBOND™ Landscape Construction Adhesive once applicator is removed from adhesive canister is greatly diminished. It is not recommended to store partially used canisters without the applicator attached.

### **For Best Results:**

- Test trigger pull tension on scrap material
- To speed cure in low humidity, lightly mist joists with water before application.
- Product spreads and slightly expands. Whenever possible, keep bead 1" away from edge of decorative edge of blocks.
- Not for continuous water submersion.
- If using on concrete, allow concrete to cure fully (at least 28 days).
- Apply in temperatures 23°F to 105°F.
- Store above 60°F. Product will gun slowly when cold.

**Clean-up and Removal:** Clean gun by removing the foam canister and replacing it with a can of DAP® SMARTBOND™ Adhesive Cleaner. Shake canister and discharge into a trash receptacle. Repeat 3 or 4 times or until discharge is clear and free of adhesive residue. Remove canister of DAP® SMARTBOND™ Adhesive Cleaner and tighten down control valve on gun for storage. The cleaner can also be used to clean up wet foam spills and tools. Test surfaces to ensure surface is compatible with cleaner before cleaning. Do not use DAP® SMARTBOND™ Adhesive Cleaner to clean skin.

### **Typical Physical & Chemical Characteristics:**

Vehicle:	Polyurethane
Volatile:	Organic Solvent
Flash Point:	-143°F

Weight/Gallon:	8.26 lbs.
Odor:	Solvent
Color:	Gray
Consistency:	Aerosol
Application Temperature Range:	23°F to 105°F
Optimum Canister Temperature:	50°F to 86°F
Service Temperature Range:	-40°F to 195°F
Bonded Strength:	Shear: 500-800 psi
Open Time:	8 Minutes (1/2" bead)
Freeze/Thaw Stability:	Yes
Coverage:	20 oz. canister: 1/2" bead covers 400 linear feet.
Shelf Life:	12 months
MSDS No.:	00010129004

### **Safety:**

Danger! Extremely flammable. Vapors may cause flash fire. Contents under Pressure. Irritant. Vapor harmful. May cause irritation to skin, eyes and lung. May cause sensitization by inhalation or skin contact. **INDIVIDUALS WITH LUNG OR BREATHING PROBLEMS SUCH AS ASTHMA OR PRIOR REACTION TO ISOCYANATES MUST NOT BE EXPOSED TO VAPOR.** May affect the brain or nervous system causing dizziness, headache or nausea. **NOTICE:** Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling vapors may be harmful or fatal. Harmful if swallowed. Use only with adequate ventilation. Do not breathe vapor. Ensure fresh air entry during application and curing by opening all windows and doors and using fans or other means of ventilation. Avoid contact with skin and eyes. Wear protective clothing, protective gloves and eye protection. Vapor may ignite explosively. Keep away from heat, sparks and flame. Do not smoke. Extinguish all flames and pilot lights. Turn off stoves, heaters, electrical motors, and other sources of ignition during use and until vapor is gone. Do not puncture, strike or incinerate can. Exposure to heat or prolonged exposure to sun may cause bursting. Do not expose to heat or store at temperature above 120°F. Cured product is combustible and may present a fire hazard if exposed to flame or temperatures above 240°F. **FIRST AID: SKIN: DO NOT** use solvents to remove product from skin. Wipe excess uncured product off with a paper towel immediately and wash with warm, soapy water. Remaining uncured residue can be removed with petroleum jelly or baby oil. For cured product, soak in warm soapy water, then apply petroleum jelly. Cured product will wear off in time. Remove contaminated clothing. **EYE:** Immediately flood with large quantities of water. **INHALATION:** Remove to fresh air. **INGESTION: DO NOT INDUCE VOMITING.** Get medical attention immediately if complications arise from any exposure. **For emergencies,** call your Poison Control Center at 1-800-222-1222. See product label and Safety Data Sheet (SDS) for additional information. For an SDS contact your supplier or visit [www.dap.com](http://www.dap.com).

### **Warranty:**

**LIMITED WARRANTY:** DAP Products Inc. warrants that this product, when applied in accordance with DAP's label, technical bulletins and applicable industry standards, will be free from defects in material for 12 months from the date of purchase, but makes no warranty as to appearance or color. Since methods of application and on-site conditions are beyond DAP's control and could affect performance, DAP makes no other warranties, express or implied, including the warranties of **Merchantability or Fitness for a Particular Use or Purpose.** If a product defect is encountered, call 1-888-DAP-TIPS for warranty fulfillment. You must have your sales receipt and product container available when you call. DAP's **sole** liability is either to supply replacement product or refund the purchase price. DAP will in no event be liable for incidental or consequential damages.

**QUESTIONS?** Call 1-888-DAP-Tips or visit [dap.com](http://dap.com) & Click on "Ask the Expert"