



Technical Bulletin

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

Revised: 10/20/2014

DAP[®] SMARTBOND[™] Subfloor Construction Adhesive – Straw Grade

- **8X more coverage than standard cartridge adhesives**
- **One can of SMARTBOND[™] Subfloor equals the coverage of eight 28 oz. cartridges of adhesive**
- **25% faster to apply – less gunning, less change out, less fatigue**
- **Unique foam collapses to form a high-strength adhesive gel**
- **Polyurethane formula provides strong, durable and permanent bond**
- **Reusable for up to 30 days**
- **Bridges gaps and voids**
- **Exceeds ASTM D3498 shear strength tests for wet, frozen and dry lumber**

Packaging: Net Wt. 20 oz. (567 mL) aerosol can with integrated straw nozzle
Color: Tan
UPC Number: 0 70798 00036 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 & click on DAP Tips then "Ask the Expert".
Order Information: 800-327-3339
Fax Number: 410-558-1068

Product Description:

DAP[®] SMARTBOND[™] Subfloor Construction Adhesive is a dynamic polyurethane adhesive foaming gel that is faster and easier to use than traditional cartridge adhesives. Jobs become more efficient as a single can of **SMARTBOND[™]** provides 8X the coverage of cartridge adhesives, meaning you can do more with less. The unique technology applies as a foam and transforms by collapsing into a high-strength, fast-curing adhesive gel that bonds to wet, dry, frozen and treated lumber. Provides increased ease-of-use for labor-intensive framing. Can be applied in wet, cold and freezing conditions. Interior/exterior use. For use in all 50 states.

Suggested Uses:

- Wood to wood assemblies
- Glued floor systems
- Dimensional and treated lumber
- Plywood
- OSB and Enhanced OSB

Surface Preparation & Application:

INSTRUCTIONS: READ DIRECTIONS AND SAFETY INFORMATION BEFORE USE!

1. Surface must be clean, dry & free of dirt, dust & other contamination.
2. Always wear safety glasses, gloves & protective clothing during use.
3. Leave cap on the can.
4. Shake can well before using & intermittently during use.
5. Detach tapered nozzle from safety tab & screw clockwise on the connector on top of the trigger.
6. Remove & retain safety tab, attached under trigger, to seal nozzle end for storage.
7. Invert can, gently pull trigger to release foam.
8. Apply a continuous bead to floor joists, with nozzle slightly above work surface. Product works best on horizontal surfaces. Not for overhead use.
9. Within 20 minutes, install subfloor panels & follow published nailing/fastening schedule.

Reuse & Storage:

1. Partially used cans can be reused for up to 30 days. To save unused product for future use, connect the safety tab into the tapered nozzle tip.
2. Store can in an upright position.
3. Reuse by grasping straw, removing safety tab & following application instructions above.

For Best Results:

- Test trigger pull tension on scrap material.
- To speed cure in low humidity, lightly mist joists with water before application.
- Not recommended for applications other than subfloor and deck installations.
- Not for continuous water submersion.
- If using on concrete, allow concrete to cure fully (at least 28 days).
- Store above 60°F. Product will gun slowly when cold.

Clean-up of Tools & Substrates:

Wipe excess uncured adhesive off with a paper towel. Use DAP® SMARTBOND™ Cleaner for Applicator Gun & Construction Adhesive or Acetone to dissolve and remove uncured construction adhesive from surfaces. Cured adhesive must be mechanically removed.

Uncured adhesive may be cleaned up with DAP® SMARTBOND™ Cleaner for Applicator Gun & Construction Adhesive or Acetone. Cured adhesive cannot be removed with solvents. DO NOT use acetone or other solvents to remove product from skin. SKIN CONTACT: Wipe excess uncured adhesive off with a paper towel immediately. Wash remaining uncured adhesive immediately with soap and water. Remaining uncured residue may be removed with petroleum jelly or baby oil. For cured foam, soak in warm soapy water, then apply petroleum jelly. Cured foam will wear off in time.

Typical Physical & Chemical Characteristics:

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|--------------------------------|-----------------|
| Vehicle: | Polyurethane |
| Volatile: | Organic Solvent |
| Flash Point: | -143°F |
| Weight/Gallon: | 8.26 lbs. |
| Odor: | Mild |
| Color: | Tan |
| Consistency: | Aerosol |
| Bridging: | Up to 1/8" gap |
| Shear Strength: | 500 - 800 psi |
| Application Temperature Range: | 23°F to 105°F |

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| Optimum Can Temperature: | 50°F to 86°F |
| Service Temperature Range: | -40°F to 195°F |
| Open Time: | 20 Minutes (1/2" bead) |
| Full Cure: | 24 Hours |
| Reusability: | Up to 30 days when stored as directed |
| Interior/Exterior Use: | Yes |
| Freeze/Thaw Stability: | Yes |
| Coverage: | 20 oz. can yields approximately 400 linear feet at 1/2" bead |
| Shelf Life: | 18 months |
| MSDS No.: | 00010127004 |

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 foam is combustible and may present a fire hazard if exposed to flame or temperatures above 240°F. See product label and Safety Data Sheet (SDS) for safety information. You can request an SDS by visiting our website at dap.com or by calling 1-888-DAP-TIPS.

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 15 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.