



Heavy Duty

PREMIUM POLYURETHANE CONSTRUCTION ADHESIVE

TECHNICAL DATA SHEET 08/20/2025

KEY FEATURES

- Adheres to wet and frozen lumber
- Reduce squeaks & movement in subfloor
- Foam compatible

DESCRIPTION

Bostik Heavy Duty Construction Adhesive (HDCA) is a one-component premium-grade polyurethane that is specifically formulated for subfloor and floor joist assemblies, from site erected structures to factory constructed modular and mobile homes.

APPLICATIONS

- Bonding to wet, frozen, or treated lumber
- Adhesion to subfloor assemblies (plywood, OSB, engineered flooring), stair treads, and furring strips in tile board components
- May eliminate squeaks and nail pop-ups when used in conjunction with mechanical fasteners
- Used in assembly of dryscape designs
- Installation of countertops and back splashes including marble and granite

APPLICABLE STANDARDS

- ASTM D3498, APA AFG-01, ASTM C557, and HUD UM-60A

SURFACE PREPARATION

Surface must be clean, dry and smooth; free of voids, projections, loose materials, oil, grease, sealers, curing compounds, waxes, and all other surface contaminants that may inhibit proper bond.

FEATURES AND BENEFITS

- Minimal odor
- Long open time for repositioning
- Quick full cure
- Easy gunning, requires less effort from user
- Low-solvent formula, will not damage foam
- Multi-environmental climate use



INSTALLATION

Surfaces must be clean, dry, and free of contamination. Apply sufficient adhesive for the specific application. Reposition work prior to adhesive skinning, usually in 45 minutes. It is the responsibility of the end user to assess fitness for use.

Heavy Duty is ready to use. Cut nozzle at 45° angle and puncture foil seal inside nozzle. Gun adhesive onto the properly prepared surface, avoiding air entrapment and gaps. Apply positive pressure to assure proper wetting of adhesive sealant to the adjoining building materials.

MANDATORY ADHESION TO SUBSTRATES PRETEST - (ASP)

Construction substrates have become complex and diverse by nature and origin. Substrate chemistries and structures can interfere with adhesive performance. Therefore, an Adhesion to Substrate Pretest (ASP) is mandatory to assess adhesion and sealing characteristics. This must be performed prior to installation to avoid potential failures and warranty issues. Call Bostik Smart help at 1-800-726-7845 for more information about ASP and proper surface preparation.

This supersedes and replaces in its entirety all previously published versions of this document. B263402

CLEAN UP

Dry wipe uncured material prior to the adhesive skinning. Cured adhesive is extremely difficult to remove without destruction of the adhered.

LIMITATIONS

- Porous substrates may absorb components of adhesive. Test for satisfactory adhesion results (see ASP).
- Lower relative humidity and temperature will extend curing time.
- Until the adhesive is fully cured, do not expose to mechanical stresses.
- Not recommended for immersion in water or other liquids.
- Not recommended for direct contact with traffic.

SHELF LIFE

The shelf life of Heavy Duty is one year from date of manufacture. Shelf life must be checked prior to using the product. Adhesive past its shelf life may not perform or adhere as described by this data sheet. High temperature and high relative humidity may significantly reduce the shelf life of the polyurethane adhesive.

COLOR

Natural

PACKAGING

10.1 fl oz. cartridges, 12 cartridges/case.

28 fl oz. cartridges, 12 cartridges/case.

WARNING

COMBUSTIBLE. HARMFUL IF SWALLOWED OR INHALED. CONTAINS POTENTIAL SENSITIZER. MAY CAUSE ALLERGIC SKIN OR LUNG REACTION. MAY IRRITATE EYES, SKIN AND RESPIRATORY TRACT. Do not breathe fumes. Do not get in eyes, on skin or on clothing. Do not swallow. Use only in a well-ventilated area or wear mask. Keep away from flames or sparks. Wash thoroughly after handling. Store container in a cool (60° - 80°F / 15° - 30°C), dry area with lid tightly sealed. Do not reuse container.

KEEP OUT OF REACH OF CHILDREN

FIRST AID TREATMENT

Methylene Diphenyl Isocyanate (MDI), Titanium Dioxide, Carbon Black inextricably bound in a polymer matrix. If in eyes or on skin, rinse with water for at least 15 minutes. If on clothes, remove clothes. If breathed in, move person to fresh air. If swallowed, call a Poison Control Center or doctor immediately. Do not induce vomiting.

SEE SAFETY DATA SHEET

Chemical Emergency: 800-424-9300 (USA),
703-527-3887 (International)

Medical Emergency: 866-767-5089

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TYPICAL UNCURED PROPERTIES (NOT FOR SPECIFICATION PROPERTIES)

Description	Results	Test Method, Notes
Skin Time (ambient conditions)	60 minutes	Bostik Test Method
Extrusion Rate (70° F, 50 psi)	185 g/min.	ASTM C603, Modified
Sag Test ¹	Pass	ASTM C639, Modified
Frozen Lumber Adhesion	Good	ASTM D3498
Shrinkage	Negligible	Bostik Test Method
Wetting on Lumber: Frozen	Good	ASTM D3498
VOC Content	< 150 g/l	EPA Method 24
Chemical Type	Polyurethane	Premium
Solids	95 ± 2%	Mathematical Calculation
Weight/gallon	15 lbs.	ASTM D1475
Flash Point	135°F (57°C)	ASTM D3828

¹1/4' x 1/4' square-notched trowel configuration

TYPICAL CURED PROPERTIES (NOT FOR SPECIFICATION PROPERTIES)

Description	Value	Test Method, Notes
Oxidation Resistance	Good	ASTM D3498
Tensile Strength ²	430 psi	ASTM D412
Lap Shear Strength ³	440 psi	ASTM D3498
Out-gassing from Cure Process	Negligible	Bostik Test Method

² After 14 day cure at 77°F (25°C) and 50% Relative Humidity

³ 100% Cohesive Failure

BOSTIK HOTLINE

Smart help 1-800-726-7845



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