



Builder's Block™

PROFESSIONAL GRADE ADHESIVE AND MOISTURE VAPOR CONTROL

TECHNICAL DATA SHEET 03/03/2025

SMART ADVANTAGES

- Unlimited moisture vapor protection
- No flooring length or width restrictions
- Low VOC

DESCRIPTION

Builder's Block™ is a high performance adhesive and moisture control membrane. Its superior properties provide a tough, flexible, tenacious bond to a variety of surfaces. Builder's Block high tacking formula exhibits exceptional green grab immediately after troweling, making installation easier and more secure. This adhesive has low VOC's (measured per EPA Method 24) and does NOT contain any water.

MOISTURE PROTECTION

Builder's Block has very low moisture vapor permeability and is not adversely affected by moisture vapor. As a result, it will reduce moisture vapor transmission through the concrete. When applied as directed as a moisture vapor membrane, it will prevent damages caused by subfloor moisture. Therefore, costly and time-consuming concrete moisture testing is not required.

ANTI-FRACTURE PERFORMANCE

Builder's Block's elastomeric characteristics establish an anti-fracture membrane that can bridge cracks up to 1/8" (3 mm) which can occur in the substrate prior to or after installation. This superior elasticity allows the adhesive to move with the wood as it expands and contracts with changes in humidity and temperature over the life of the floor.

ULTIMATE VERSATILITY

Builder's Block may be used to adhere all engineered, solid, bamboo, cork, and parquet hardwood flooring. Builder's Block may be used over all properly prepared substrates common to hardwood flooring installations including concrete, plywood, OSB, well bonded vinyl/VCT and ceramic tile, gypsum underlayments (dry, above-grade), cement patch/underlayments, radiant-heat flooring, and properly prepared terrazzo. This adhesive can also be used to install plywood as described below, as well as ceramic tile, marble, and stone inlays for residential applications.



LEED® CONTRIBUTION

Builder's Block's low-VOC formulation (tested by EPA Method 24) may contribute toward LEED® credits under section EQ 4.1: Low-Emitting Materials – Adhesives & Sealants.

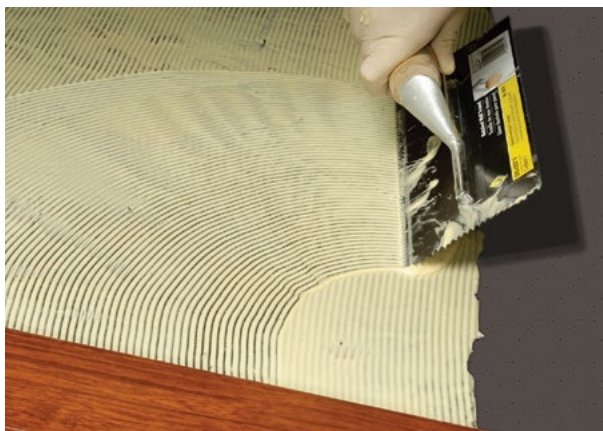
DIRECTIONS FOR USE

Read and understand data sheet completely before beginning installation. Follow industry standards and flooring manufacturer's recommendations for acclimation, design, layout, and application of wood flooring material. If jobsite conditions are outside of flooring manufacturer's recommendations, take necessary corrective actions. Whether the moisture content of substrate exceeds or is within the flooring manufacturer's recommendations, to address current or possible future subfloor moisture, sound, and cracks (up to 1/8"), apply Builder's Block as directed.

SURFACE PREPARATION

Surfaces must be absorptive, clean, and free from loose materials, oil, grease, sealers, curing compounds, waxes, silicates, laitance, and all other surface contaminants that may inhibit proper bond. Completely remove cutback adhesive residue or other surface contaminants by diamond grinding, shot blasting, or scarifying to open the pores of the concrete. All surfaces to be treated must have a concrete surface profile (CSP) of 1-3 (similar to a broomed finish), as defined by ICRI (International Concrete Repair Institute,

This supersedes and replaces in its entirety all previously published versions of this document. B252501



Guideline No. 03732). Maximum acceptable floor variation is 3/16" in 10 feet. Areas requiring patching or leveling must be done using a Portland cement-based material (e.g., Bostik Webcrete® 95, Webcrete® 98, SL-100™, SL-150™, SL-175™, SL-200™ or UltraFinish™ Pro). Seal any cracks larger than 1/4" or expansion joints with Bostik 915FS.

PLEASE NOTE: Concrete substrate should NOT be smooth and reflective; it must have a concrete surface profile of CSP 1-3 (similar to a broomed finish), as define by ICRI (International Concrete Repair Institute, Guideline No. 03732). It is advisable to test for adequate substrate absorption and texture in several areas throughout the jobsite by sprinkling droplets of water onto the slab. The drops of water should show signs of penetrating the substrate within one minute. This is evidenced by a water stain on the concrete without a "domed" droplet. If no signs of water penetration are shown within one minute and "domed" droplets remain (similar to drops on a car hood) the substrate will need to be mechanically textured.

INSTALLATION

The installation begins with a starter row secured to the subfloor; the starter row provides a stationary point to push against so flooring doesn't move during installation. Once the starter row is secured, apply adhesive/membrane to substrate using the appropriate trowel. See the chart on last page for proper trowel selection. Flooring may be installed using a "Wet-Lay" method of installation. For "Wet-Lay" installations, spread the adhesive and begin to install the flooring immediately. Periodically lift boards immediately after installation to ensure proper slab coverage and transfer to the back of the flooring. As you work, immediately clean any adhesive from prefinished flooring with Bostik Ultimate™ Adhesive Remover or mineral spirits (be careful not to harm finish), then dry buff with a non-abrasive towel.

After a few rows have been installed, and as you move across the room, tape the boards together using removable 3M #2080 Blue tape to prevent boards from sliding and to secure close-fitting joints. Rolling is recommended for all installations. Flooring that is not flat should be tacked, weighted, or rolled to ensure proper contact between the flooring and substrate.

PLYWOOD OVER CONCRETE: Score 4' x 4' or 2' x 8' sheets of 3/4" exterior-grade plywood on the backside every 8" to 10" by using a circular saw and cutting one-half the thickness of the plywood; "scoring or kerfing" takes the tension out of the plywood and helps to prevent possible warping or curling. Apply adhesive to substrate and then set plywood into the wet adhesive. Allow the adhesive to fully cure before nailing or using Builder's Block™ adhesive to install flooring. If nailing to the plywood, nails must not protrude through to the adhesive.

CLEAN UP

As you work, immediately clean any adhesive from prefinished flooring with Bostik Ultimate™ Adhesive Remover or mineral spirits (be careful not to harm finish), then dry buff with a non-abrasive towel. Immediately clean all tools and equipment with

Bostik's Ultimate™ Adhesive Remover or mineral spirits before material cures.

TROWEL CLEAN-UP TIP: Before use, cover areas of the trowel that are not used to spread the adhesive with blue tape. After use, simply tear off tape before material cures, and clean the remainder of the trowel with adhesive remover.

STORAGE/SHELF LIFE

Store at temperatures between 50°F and 100°F (10°C and 38°C). Shelf life is one year from date of manufacture in closed, original packaging.

Re-Seal Partially Used Container: With pail upright place a sheet of plastic (e.g., trash bag) over the top of the pail. Secure lid tightly over the plastic on top of pail. Carefully turn pail upside down. Plastic will help prevent the material from bonding the lid closed.

Re-Open Partially Used Container: Carefully turn pail right side up. Remove lid. Carefully cut and discard cured material and plastic from top of pail. Any uncured material may be used.

LIMITATIONS

- Periodically check coverage of adhesive during installation; 100% substrate coverage and adhesive transfer to the back of the flooring is required to protect against damages from subfloor moisture.
- Due to limitations with solid and bamboo wood flooring
- (e.g., lack of dimensional stability), "below-grade" installations are limited to engineered hardwood flooring.
- Do not use in areas subject to hydrostatic head.
- Do not install solid wood or bamboo flooring over VCT/vinyl.
- Bamboo installations should follow solid hardwood flooring installation recommendations.
- Slab temperature should be between 50°F and 95°F (10°C and 35°C) during installation.
- Do not use on wet, dusty, contaminated, glassy smooth or friable substrates; do not use over substrates/slabs treated with sealers or curing compounds.
- Completely remove all adhesive residue and other surface contaminants by diamond grinding, shot blasting, or scarifying.
- Do not use over perimeter bonded flooring material.
- Use over gypsum-based/underlayment is limited to dry, "above-grade" installations where the gypsum has dried hard (not dusty/powdery), with a minimum compressive strength > 2,000 psi for engineered hardwood installations,
- or minimum compressive strength > 2,500 psi for solid hardwood installations.
- Please refer to flooring manufacturer's recommendations and NWFA's specifications for proper acclimation, verification of moisture content of flooring with a moisture meter, and expansion relief around perimeter throughout installation.
- Do not use with vinyl-backed cork flooring or foamed-backed parquet.
- This membrane is designed to reduce moisture vapor emissions that originate/emanate from below the membrane only.
- This membrane does NOT reduce/affect issues originating from the sides, ends, or top of flooring (ie. puddles, water, leaks, hydrostatic-head, etc.).
- This membrane does NOT eliminate all possible moisture related or install related issues (i.e. improper acclimation of flooring, jobsite temperature/relative humidity, etc.).
- This membrane is designed to prevent excessive variance of moisture between the top, middle, and bottom of flooring that originates from the substrate.

PACKAGING

Available in 4 gallon pails (36 pails/pallet)

WARNING

COMBUSTIBLE. MAY BE HARMFUL IF SWALLOWED OR INHALED. CONTAINS POTENTIAL SENSITIZER. M

AY 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, dry area with lid tightly sealed. Do not reuse container.

KEEP OUT OF REACH OF CHILDREN

FIRST AID TREATMENT

Contains petroleum resins, diisodecyl phthalate (DIDP), methylene diphenyl isocyanate (MDI) and quartz silica 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

OPEN TIME CHART

Temperature		Humidity		
		40%	60%	80%
60°F (16°C)	Tack	2 Hours	1.6 Hours	1.3 Hours
	Open	3.5 Hours	3.5 Hours	3 Hours
70°F (21°C)	Tack	1.6 Hours	1.3 Hours	1 Hour
	Open	3 Hours	3 Hours	2.5 Hours
80°F (27°C)	Tack	1.3 Hours	1 Hour	0.6 Hour
	Open	3 Hours	2.5 Hours	2 Hours

Note: This chart is for reference only; actual jobsite times may vary.

CHEMICAL & PHYSICAL PROPERTIES

Use Environments	Residential	Yes
	Offices/Light Commercial	Yes
	Heavy Commercial	Yes
	Offices	Yes
	Hospital	Yes
	Exterior	No
Substrates	Wet Areas	No
	Concrete	Yes
	Plywood	Yes
	OSB	Yes
	Well-Bonded Vinyl	Yes
	Terrazzo	Yes
	Ceramic Tile	Yes
	Gypsum Underlayment*	Yes
Flooring Types	Cement Patch/Underlayment	Yes
	Solid Hardwood	Yes
	Engineered Hardwood	Yes
	Bamboo	Yes
	Cork	Yes
	Parquet	Yes
	Plywood	Yes
	Ceramic Tile, Marble, Stone Inlays* ²	Yes
Cured Physical Properties	Cure Time* ³	
	Light foot traffic	6 to 8 hours
	Normal foot traffic	8 to 12 hours
	Concrete Moisture Vapor Limits for subfloor moisture vapor protection	None, dry to the touch
	Elongation	>150%
	Service Temperature	-40°F to 150°F (-40°C to 66°C)
Application Properties	Ease of Troweling	Easy
	Odor	Mild
	Open/Working Time* ⁴	90 min
	Color	Grey
	Density (lbs/gallon)	12.7
	Percentage of Water* ⁵	0%
	Percentage of Adhesive Coverage Required:	For Moisture Protection For Bond
	Engineered	100% >80%
	Solid	100% >95%
	Application Temperature	50°F to 95°F (10°C to 35°C)
Chemical Properties	Chemistry Type	1-Part Urethane
	Adhesive Type	Moisture Cure
	VOC Compliant (measured per EPA Method 24)	Yes (20 g/L)
	Flash Point, closed cup	≥142°F (61.1°C)

* Dry, above grade

*² Residential or light commercial only

*³ Humidity affects cure to a greater degree than temperature; the higher the humidity, the faster the cure. Under normal conditions, light foot traffic is acceptable after 6 to 8 hours; normal traffic after 12-16 hours.

*⁴ Please refer to the Open/Working Time Chart.

*⁵ Per ASTM E203-01 Standard Test Method for water using Volumetric Karl Fischer Titration Method. Results rounded to the nearest tenth. Test Method has error range of +/- 0.2%.

TROWEL SELECTION

In order to form a membrane that functions properly for moisture vapor protection, the right trowel needs to be selected to achieve both 100% coverage of the substrate and 100% transfer to the back of the flooring. Jobsite conditions, profile of the substrate, depth of back channeling in the flooring, and other factors affect the amount of adhesive that must be applied to achieve proper coverage and transfer. Always pull a board at the beginning of and during the installation process to confirm adequate coverage and transfer. Trowel size may need to be changed to achieve the required coverage and transfer. See trowel suggestions below.

ADHESIVE & MOISTURE MEMBRANE INSTALLATION METHOD

Suggested Trowel (For use as an adhesive only, refer to adhesive only installation method.)

Engineered wood flooring up to 5/8" thick.
Coverage: 30-35 sq.ft. per gallon

Engineered wood flooring >5/8" thick.
Coverage: 20 sq.ft. per gallon



Trowel size is suggested to maximize coverage of adhesive. Periodically lift a board to ensure the following conditions are being met: 100% coverage of concrete substrate and 100% transfer to the back of the flooring product. Uneven subflooring may require the use of either a leveling/patching material, or a larger V-notched trowel for proper coverage of adhesive.

ADHESIVE ONLY INSTALLATION METHOD

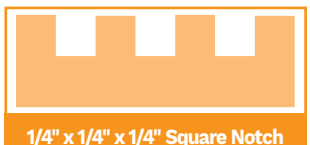
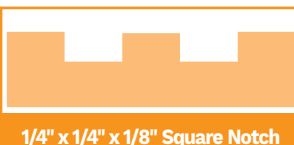
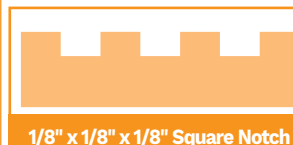
Suggested Notched Trowel (For use as an adhesive and moisture control membrane, refer to chart above.)

Engineered hardwood flooring ≤1/2" thick.
Coverage: 50 sq.ft./gallon

≤1/2" Parquet, or cork underlayment.
Coverage: 80 sq.ft./Gallon

Engineered hardwood flooring >1/2" thick, Solid wood or bamboo flooring ≤1/2" thick, and parquet ≤3/4" thick.
Coverage: 40 sq.ft./gallon

Solid wood or bamboo flooring >1/2" thick, or plywood.
Coverage: 35 sq.ft./gallon



Trowel size is suggested to maximize coverage of adhesive. Periodically check coverage of adhesive during installation: >80% coverage and transfer to the back of the flooring is required for all engineered wood flooring; >95% coverage and transfer is required for all solid wood flooring or bamboo flooring products.

LIMITED WARRANTY

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