Bostik's BEST®

WOOD FLOORING URETHANE ADHESIVE AND MOISTURE VAPOR CONTROL

KEY FEATURES
- Over 25 years of industry-leading performance
- Moisture vapor protection
- Bostik’s Blockade™ antimicrobial protection

DESCRIPTION
Bostik’s BEST® is a high performance adhesive and moisture control membrane. Its superior properties provide a tough, flexible, tenacious bond to a variety of surfaces. Bostik’s BEST® 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. Bostik’s BEST® contains Bostik’s BLOCKADE™ antimicrobial protection, which inhibits the growth of bacteria, mold, or mildew on the surface of the dried adhesive.

MOISTURE PROTECTION
Bostik’s BEST® 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 beneath dimensionally stable, engineered wood flooring only. As a result, costly and time-consuming concrete moisture testing is not required for engineered hardwood flooring when the slab is properly prepared, dry to the touch, and fully cured. For solid hardwood or bamboo on substrates >3 lbs. or 75% RH, use Bostik’s MVP4™ prior to the application of Bostik’s BEST® for unlimited moisture vapor protection, or use Bostik Ultra-Set® SingleStep2™ or GreenForce®.

ANTI-FRACTURE PERFORMANCE
Bostik’s BEST®’s elastomeric characteristics establish an anti-fracture membrane that can bridge cracks up to 1/8” (3mm) 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
Bostik’s BEST® may be used to adhere all engineered, solid (adhesive only), bamboo (adhesive only), cork, and parquet hardwood flooring (adhesive only). Bostik’s BEST® may be used over all properly prepared substrates common to hardwood flooring installations including concrete, plywood, OSB, well bonded vinyl/VCT and ceramic tile, cement backer board, 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 light commercial and/or residential applications.

LEED® CONTRIBUTION
This low VOC formulation (as measured per EPA Method 24), may contribute toward LEED® v4 EQ Credit — Low-Emitting Materials, Interior 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 Bostik’s BEST® as directed.

This supersedes and replaces all previously published versions of this document.
T3622 (Last revised on 08.17.18)
PLYWOOD OVER CONCRETE: Score 4' x 4' or 2' x 8' sheets of 3/4" "scoring or kerfing" takes the tension out of the plywood and helps flooring. If nailing to the plywood, nails must not protrude through to the adhesive.

GLUE ASSIST: Bostik’s BEST® in cartridges may be used for glue assist of mechanical fasteners on wood subfloors when suggested or required by wide-plank flooring manufacturers. Cut the tip of the nozzle at a 45-degree angle to produce a bead of adhesive between 1/4" and 3/8" in diameter. Puncture the foil seal inside nozzle. Gun adhesive onto the back of the plank in an “S” pattern within 1” (2.5cm) of long edges and repeating every 6”-8” (15-20cm). Press plank firmly into place, then set mechanical fasteners per the flooring manufacturer or NWFA guidelines. Average coverage at 1/4” diameter bead produces 30 linear feet per 10.1oz cartridge, or 85 linear feet per 28oz cartridge. PLEASE NOTE: Glue assist is for bond only and offers no moisture vapor protection. As a result, glue assist should only be performed on subfloors that have moisture mitigation or environmental controls beneath, matching the temperature and humidity levels of the space above. Do not apply adhesives over asphalt felt papers or other loose-lay underlayments.

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 cues.

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 cues, 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.
- For substrates with any history of moisture problems, or for solid hardwood or bamboo on concrete slabs exceeding 3 lb MVER or 75% RH, use a high performance moisture vapor reduction product such as Bostik MVP4™ prior to the application of Bostik’s BEST®, or use Bostik Ultra-Set® SingleStep2™ or GreenForce®.
- Do not use in areas subject to hydrostatic head.
- Do not install solid wood flooring over VCT/vinyl.

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, 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-Rapid™, SL-100™, SL-150™, SL-175™, SL-200™ or UltraFinish™ Pro). Seal any cracks larger than 1/8” or expansion joints with Bostik 915FS™ or 955-SL™.

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 defined by ICRI (International Concrete Repair Institute, Guideline No. 03732). It also must be tested in accordance with ASTM F3191 and be found porous, where a 1/4” drop of water must absorb into the concrete within 1 minute.

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 most installations. For some sensitive factory-applied finishes such as oil-based finishes, tape and rolling may not be recommended. Test to ensure that tape removal after rolling does not harm finish. Flooring that is not flat should be weighted or rolled to ensure proper contact between the flooring and substrate.
**Chemical & Physical Properties**

<table>
<thead>
<tr>
<th>Use Environments</th>
<th>Residential</th>
<th>Yes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Offices/Light Commercial</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Heavy Commercial</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Offices</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Hospital</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Exterior</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>Wet Areas</td>
<td>No</td>
</tr>
</tbody>
</table>

| Substrates             | Solid Hardwood | Yes |
|                       | Engineered Hardwood | Yes |
|                       | Bamboo | Yes |
|                       | Cork | Yes |
|                       | Parquet | Yes |
|                       | Plywood | Yes |
|                       | Ceramic Tile, Marble, Stone Inlays | Yes |

| Flooring Types         | Cement Backer Board | Yes |
|                       | Gypsum Underlayments | Yes |
|                       | Cement Patch/Underlayment | Yes |

<table>
<thead>
<tr>
<th>Cured Physical Properties</th>
<th>Cure Time(^1)</th>
<th>6 to 8 hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Light foot traffic</td>
<td>8 to 12 hours</td>
</tr>
<tr>
<td>Water Vapor Permeability(^2)</td>
<td>&lt;0.75</td>
<td></td>
</tr>
</tbody>
</table>

Concrete Moisture Vapor Limits for subfloor moisture vapor protection:

- For engineered hardwood: None, dry to the touch
- For solid hardwood or bamboo: ≤ 3 lbs/1000 sq ft/24 hrs
- ASTM 1869 Calcium Chloride Method: ≤ 3 lbs/1000 sq ft/24 hrs
- ASTM 2170 Relative Humidity Test: ≤ 75% RH
- Elongation: >15%
- Service Temperature: -40°F to 150°F

<table>
<thead>
<tr>
<th>Application Properties</th>
<th>Ease of Troweling</th>
<th>Easy</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Odor</td>
<td>Mild</td>
</tr>
<tr>
<td></td>
<td>Open/Working Time(^3)</td>
<td>180 min</td>
</tr>
<tr>
<td></td>
<td>Color</td>
<td>Tan</td>
</tr>
<tr>
<td></td>
<td>Density (lbs/gallon)</td>
<td>12.66</td>
</tr>
</tbody>
</table>
|                        | Percentage of Water\(^4\) | 0%
|                        | Percentage of Adhesive Coverage Required: For Moisture Protection & For Bonding | 100% & >80%
|                        | Engineered | 100% & >80%
|                        | Solid | 100% & >95%
|                        | Application Temperature | 50°F to 100°F (10°C to 38°C) |

<table>
<thead>
<tr>
<th>Chemical Properties</th>
<th>Chemistry Type</th>
<th>1-Part Urethane</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Adhesive Type</td>
<td>Moisture Cure</td>
</tr>
<tr>
<td>VOC Compliant (measured per EPA Method 24)</td>
<td>Yes (20 g/L)</td>
<td></td>
</tr>
<tr>
<td>Flash Point, closed cup</td>
<td>≥142°F (61°C)</td>
<td></td>
</tr>
</tbody>
</table>

**Open Time Chart**

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Humidity</th>
<th>40%</th>
<th>60%</th>
<th>80%</th>
</tr>
</thead>
<tbody>
<tr>
<td>60°F (16°C)</td>
<td>Tack</td>
<td>2 Hours</td>
<td>1.6 Hours</td>
<td>1.3 Hours</td>
</tr>
<tr>
<td></td>
<td>Open</td>
<td>3.5 Hours</td>
<td>3.5 Hours</td>
<td>3 Hours</td>
</tr>
<tr>
<td>70°F (21°C)</td>
<td>Tack</td>
<td>1.6 Hours</td>
<td>1.3 Hours</td>
<td>1 Hour</td>
</tr>
<tr>
<td></td>
<td>Open</td>
<td>3 Hours</td>
<td>3 Hours</td>
<td>2.5 Hours</td>
</tr>
<tr>
<td>80°F (27°C)</td>
<td>Tack</td>
<td>1.3 Hours</td>
<td>1 Hour</td>
<td>0.6 Hour</td>
</tr>
<tr>
<td></td>
<td>Open</td>
<td>3 Hours</td>
<td>2.5 Hours</td>
<td>2 Hours</td>
</tr>
</tbody>
</table>

**Notes:**

- 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.
- Do not use Bostik’s BEST™ as a moisture vapor membrane beneath solid or bamboo flooring.
- This membrane is designed to reduce moisture vapor emissions that originate/emanate from below the membrane only.
- This membrane does NOT reduce/afflict issues originating from the sides, ends, or top of flooring (i.e. 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 5 gallon pails (36 pails/pallet), 2 gallon pails (96 pails/pallet), 10.1 oz cartridges (12 cartridges/case, 96 cases/pallet), 28 oz cartridges (24 cartridges/case, 105 cases/pallet), 2 gallon pails (96 pails/pallet), 5 gallon pails (36 pails/pallet), 2 gallon pails (96 pails/pallet).

**Caution**

Combustible. May be 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, dry area with lid tightly sealed. Do not reuse container.

**Keep out of reach of children**

**Chemistry Type**

1-Part Urethane

**Adhesive Type**

Moisture Cure

**VOC Compliant**

Yes (20 g/L)

**Flash Point, closed cup**

≥142°F (61°C)

**Open Time Chart**

- Temperature: 60°F (16°C), 70°F (21°C), 80°F (27°C)
- Humidity: 40%, 60%, 80%
- Tack: 2 Hours, 1.6 Hours, 1.3 Hours
- Open: 3.5 Hours, 3.5 Hours, 3 Hours
- Application Temperature: 50°F to 100°F (10°C to 38°C)

**Notes:**

- Originally from the substrate.
- Reforms moisture between the top, middle, and bottom of flooring that originate/emanate from below the membrane only.
- This membrane is designed to reduce moisture vapor emissions that originate/emanate from below the membrane only.
- **Residential or light commercial only**
- **Dry above grade**
- **Residential or light commercial only**
- **Vapor permeability**
- **Compliance**
- **Flash Point**
- **VOC Compliant**
- **Chemistry Type**
- **Application Temperature**
- **Open Time Chart**
- **Notes:**
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.)

<table>
<thead>
<tr>
<th>Engineered wood flooring up to 5/8” thick. Coverage: 30-35 sq.ft. per gallon</th>
<th>Engineered wood flooring &gt;5/8” thick. Coverage: 20 sq.ft. per gallon</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="1/4” x 1/4” V-Notch" /></td>
<td><img src="image2" alt="1/4” x 1/4” x 1/4” Square Notch" /></td>
</tr>
<tr>
<td><img src="image3" alt="1/2” x 15/32” V-Notch" /></td>
<td><img src="image4" alt="1/4” x 3/8” x 1/4” Square Notch" /></td>
</tr>
</tbody>
</table>

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.)

<table>
<thead>
<tr>
<th>Engineered hardwood flooring ≤1/2” thick. Coverage: 50 sq.ft./gal</th>
<th>Engineered hardwood flooring &gt;1/2” thick, Solid wood or bamboo flooring ≤1/2” thick, and parquet ≤3/4” thick. Coverage: 40 sq.ft./gal</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image5" alt="3/16” x 5/32” V-Notch" /></td>
<td><img src="image6" alt="1/4” x 1/4” x 1/4” Square Notch" /></td>
</tr>
<tr>
<td><img src="image7" alt="1/8” x 1/8” x 1/8” Square Notch" /></td>
<td><img src="image8" alt="1/4” x 1/4” x 1/4” Square Notch" /></td>
</tr>
</tbody>
</table>

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.

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

LIMITED WARRANTY

Limited Warranty found at www.bostik.com/us or call 800.726.7845. TO THE MAXIMUM EXTENT ALLOWED BY LAW, BOSTIK DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. UNLESS OTHERWISE STATED IN THE LIMITED WARRANTY, THE SOLE REMEDY FOR BREACH OF WARRANTY IS REPLACEMENT OF THE PRODUCT OR REFUND OF THE BUYER'S PURCHASE PRICE.

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BOSTIK HOTLINE

Smart help
1–800–726–7845

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