



WOOD P105 PRO™

URETHANE WOOD FLOORING ADHESIVE

TECHNICAL DATA SHEET 06/10/2024

SMART ADVANTAGES

- Easy spread
- Low VOC
- Tenacious Bond

DESCRIPTION

Bostik's Wood P105 PRO™ is an easy-to-trowel urethane adhesive to adhere all engineered, acrylic impregnated, solid plank, shorts, bamboo and parquet hardwood flooring designed and recommended in writing by the hardwood flooring manufacturer for glue-down applications. It provides a flexible and tenacious bond to a variety of surfaces. Bostik Wood P105 PRO™'s elastomeric characteristics allow the adhesive to move with the wood as it expands and contracts over the life of the floor. WOOD P105 PRO™ may be used on concrete slabs with moisture vapor emission rates (MVER) up to 5 lbs. per 1,000 square feet per 24 hours (using an anhydrous calcium chloride test kit according to ASTM F-1869 test method), and up to 80% relative humidity (RH) (tested in accordance with ASTM F-2170). For substrates that are greater than 5 lbs. MVER or 80% RH, use Bostik's Roll-Cote™ or MVP4® prior to the application of WOOD P105 PRO™ or use a Bostik all-in-one adhesive for unlimited moisture vapor protection. Bostik's Wood P105 PRO™ exhibits a long open time making installation easier and faster. This adhesive has low VOCs and does **NOT** contain any water.

ANTI-FRACTURE PERFORMANCE

Bostik's Wood P105 PRO™'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 Wood P105 PRO™ may be used to adhere all engineered, solid (adhesive only), bamboo (adhesive only), cork, and parquet hardwood flooring (adhesive only). This adhesive can also be used to install plywood as described for light commercial and/or residential applications.

Bostik's Wood P105 PRO™ 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, properly prepared terrazzo, and recycled-rubber underlayments.

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.

This supersedes and replaces in its entirety all previously published versions of this document. B182250

SURFACE PREPARATION

All 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 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 International Concrete Repair Institute (ICRI) 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-175™, SL-200™, SL-Rapid™ or UltraFinish™ Pro). For cracks in concrete that are larger than 1/8", use a quality urethane sealant, such as Bostik's 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 defined by ICRI Guideline No. 0372. It also must be tested in accordance with ASTM F3191 and be found porous, where a ¼" 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's Ultimate™ Adhesive Remover or mineral spirits (be careful not to harm finish), then dry buff with a nonabrasive 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.

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/membrane to substrate, and then set plywood into the wet adhesive/membrane. Allow the adhesive to fully cure before nailing or using Bostik's Wood P105 PRO™ adhesive to install flooring. If nailing to the plywood, nails must not protrude through to the adhesive.

CURE TIME

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 8 to 10 hours; normal traffic after 24 hours. WOOD P212 Bond™ will cure slower in cold/dry conditions.

CLEANUP

As you work, immediately clean any adhesive from prefinished flooring with Bostik's 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 CLEANUP TIP: Before beginning, use blue tape to cover areas of the trowel that are not used to spread the adhesive. 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 manufacturing in closed, original packaging.

Reseal 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.

Reopen 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.
- 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 concrete slabs exceeding the hardwood flooring manufacturer's recommendation, use a high performance moisture vapor reduction product such as Bostik's Slab-Cote™ with the application of Bostik's Wood P105 PRO™.
- On- or below-grade substrates must have appropriate vapor barrier (6 mil poly or better) properly installed below slab.
- Do not install solid wood 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 underlayments 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 NWFAs specifications for proper acclimation, verification of moisture-vapor content of flooring with a moisture-vapor meter, and expansion relief around perimeter throughout installation.
- Do not use with vinyl-backed cork flooring or foam-backed parquet.
- Do not use in areas subject to hydrostatic head.
- This membrane does **NOT** reduce/affect 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-vapor-related or install-related issues (i.e., improper acclimation of flooring, jobsite temperature/relative humidity, etc.).

PACKAGING

Available in a 4-gallon pail (36 pails/pallet)

WARNING

COMBUSTIBLE. IRRITANT. MAY CAUSE ALLERGIC SKIN OR LUNG REACTION. MAY IRRITATE EYES, SKIN AND LUNGS. Contains a potential skin and lung sensitizer. May cause allergic respiratory tract or skin reaction. Avoid breathing mists or vapors. Avoid contact with skin and eyes. Use in a well-ventilated area or wear a mask. Keep away from flames or sparks. Wash thoroughly after handling. Store in a cool, dry area away from heat, ignition sources and direct sunlight. Do not reuse container.

KEEP OUT OF REACH OF CHILDREN

FIRST AID TREATMENT

Contains Petroleum Distillates, Phthalates and Methylene Diphenyl Isocyanate (MDI). 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

CHEMICAL & PHYSICAL PROPERTIES

Use Environments	Residential	Yes
	Offices/Light Commercial	Yes
	Heavy Commercial	Yes
	Hospital	No
	Exterior	No
	Wet Areas	No
Substrates	Concrete	Yes
	Plywood	Yes
	OSB	Yes
	Recycled Rubber Underlayment	Yes
	Well-Bonded Vinyl	Yes
	Terrazzo	Yes
	Ceramic Tile	Yes
	Gypsum Underlayments ¹	Yes
Cement Patch/Underlayment	Yes	
Flooring Types	Solid Hardwood	Yes
	Engineered Hardwood	Yes
	Bamboo	Yes
	Cork	Yes
	Parquet	Yes
	Plywood	Yes
Cured Physical Properties	Cure Time ²	
	Light foot traffic	6 to 8 hours
	Normal foot traffic	8 to 12 hours
	Water Vapor Permeability ³	< 0.9
	Concrete Moisture Vapor Limits for subfloor moisture vapor protection:	
	For engineered hardwood:	
	ASTM 1869 Calcium Chloride Method	≤ 5 lbs/1000 sq ft /24 hrs
	ASTM 2170 Relative Humidity Test	≤ 80% RH
	For solid hardwood or bamboo:	
	ASTM 1869 Calcium Chloride Method	≤ 3 lbs/1000 sq ft /24 hrs
	ASTM 2170 Relative Humidity Test	≤ 75% RH
Elongation	>180%	
Service Temperature	-40°F to 150°F (-40°C to 66°C)	
Application Properties	Ease of Troweling	Easy
	Odor	Mild
	Open/Working Time ⁴	180 minutes
	Color	Off White
	Density (lbs/gallon)	15.1
	Percentage of Water ⁵	0%
	Percentage of Adhesive Coverage Required:	For Moisture-Vapor Protection For Bond
	Engineered	95% >80%
	Solid	95% >95%
Application Temperature	50°F to 100°F (10°C to 38°C)	
Chemical Properties	Chemistry Type	1-Part Urethane
	Adhesive Type	Moisture-Vapor Cure
	VOCs (measured per EPA Method 24)	Yes (20 g/L)
	Flash Point, closed cup	145°F (63°C)
LEED® v4 Contribution	IEQ - Low-Emitting Materials for Interior Adhesives & Sealants	Up to 3 Points ⁶

¹ Dry, above grade

² 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.

³ Per ASTM E-96 Standard Test Methods for Water Vapor Transmission of materials. Ratings are g/m²-24 hour-mmHG.

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%.





⁶ Per LEED® v4 BD+C rating system, taking into account all other interior adhesives & sealants applied on site.

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 95% coverage of the substrate and 95% 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 ONLY INSTALLATION METHOD

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

Engineered hardwood flooring $\leq 1/2"$ thick. Coverage: 50 sq. ft./gallon	$\leq 1/2"$ Parquet or cork underlayment. Coverage: 80 sq. ft./gallon	Engineered hardwood flooring $> 1/2"$ thick, solid wood or bamboo flooring $\leq 1/2"$ thick, and parquet $\leq 3/4"$ thick. Coverage: 40 sq. ft./gallon	Solid wood or bamboo flooring $> 1/2"$ thick, or plywood. Coverage: 35 sq. ft./gallon
			
3/16" x 5/32" V-Notch	1/8" x 1/8" x 1/8" Square Notch	1/4" x 1/4" x 1/8" Square Notch	1/4" x 1/4" x 1/4" Square Notch

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.

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