

# Grip-N-Shield™

# HARDWOOD FLOORING ADHESIVE AND MOISTURE VAPOR CONTROL

TECHNICAL DATA SHEET 07/21/2022

#### **SMART ADVANTAGES**

- Fast, easy installation with professional results
- Protects wood flooring from moisture in concrete
- Superior sound dampening performance



Bostik Grip-N-Shield™ is a high performance adhesive, moisture control, and sound reduction membrane all in one. Its superior properties provide a tough, flexible, tenacious bond to a variety of surfaces, and it is not adversely affected by exposure to moisture, water or alkalinity. Grip-N-Shield™ exhibits exceptional green grab or high tack immediately after troweling, making installation easier and more secure. This adhesive contains 1% recycled rubber material, has zero VOC's (as calculated per SCAQMD Rule 1168) and does **NOT** contain any water. Grip-N-Shield™ contains Bostik BLOCKADE™ antimicrobial protection, which inhibits the growth of bacteria, mold, or mildew on the surface of the dried adhesive.

# THICKNESS CONTROL™ SPACER TECHNOLOGY

Grip-N-Shield™ contains Bostik's patent-pending Thickness Control™ Spacer Technology. This proprietary feature helps ensure proper membrane thickness is maintained between the hardwood flooring and substrate. Installers can use rubber mallets to engage the tongue and groove or even walk on their work during the installation process without significant reduction in the film thickness that could compromise moisture protection and sound control.

# MOISTURE PROTECTION

Grip-N-Shield™ 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 high subfloor moisture vapor. As a result,costly and time-consuming concrete moisture testing is not required for solid or engineered hardwood flooring when the slab is properly prepared, dry to the touch,and fully cured. For bamboo flooring,Grip-N-Shield™ may be used for concrete slabs with elevated moisture levels up to 15 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 87% RH (tested in accordance with ASTM F-2170). For bamboo flooring on substrates that have an MVER of greater than 15 lbs or 87% RH, use Bostik Wood-Grip™ Plus for unlimited moisture vapor protection.



ACOUSTIC PERFORMANCE CHART							
Subfloor Type	Flooring Type	Ceiling Type	Results	Test			
6" Concrete	3/8" Engineered	5/8" Suspended Gypsum	69	IIC			
6" Concrete	3/8" Engineered	No suspended ceiling	49	IIC			
6" Concrete	3/8" Engineered	No suspended ceiling	21	ΔIIC			
6" Concrete	3/8" Engineered	No suspended ceiling	50	STC			
6" Concrete	3/8" Engineered	5/8" Suspended Gypsum	66	STC			

# **SOUND CONTROL**

Grip-N-Shield™ provides a premium sound reduction barrier over the substrate that typically outperforms 1/4" thick cork underlayment. This eliminates the costly labor and materials required to transport and install these secondary acoustical sheet membranes. Independent laboratory testing results are summarized on the table [above].

# **ANTI-FRACTURE PERFORMANCE**

Grip-N-Shield™'s elastomeric characteristics establish an antifracture 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.

This supersedes and replaces in its entirety all previously published versions of this document. B19300

#### **ULTIMATE VERSATILITY**

This high performance formulation may be used to adhere engineered, solid, bamboo, cork, and parquet designed for glue-down applications. Grip-N-Shield™ has no restrictions on board width or length. It 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, as well as ceramic tile, marble, and stone inlays for light commercial and/or residential applications.

# LEED® CONTRIBUTION

This 0 VOC formulation (as calculated per SCAQMD Rule 1168) may contribute toward LEED® credits under section EQ 4.1: Low-Emitting Materials — Adhesives & Sealants. It also contains 1% recycled rubber material contributing to LEED® credits under section MR 4.2: Recycled Content.

#### **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 Grip-N-Shield<sup>TM</sup> 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 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-100™, SL-175™, SL-200™ or UltraFinish™ Pro). Seal any cracks larger than 1/8" 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" or "Walk On-Work" methods of installation. For either type of installation, 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/membrane to substrate and then set plywood into the wet adhesive/membrane. Allow the adhesive/membrane to fully cure before nailing or using Grip-N-Shield™ adhesive/membrane to install flooring. If nailing to the plywood, nails must not protrude through to the adhesive/membrane.

#### **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 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 damage 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 bamboo flooring on substrates with any history of moisture problems, or for concrete slabs exceeding 15 lb MVER or 85% RH, use a high performance moisture vapor reduction product such as Bostik WoodGrip™ Plus.
- 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.
- Do not use in areas subject to hydrostatic head.
- 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 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**

4 gallon (15.1 L) pails (36 pails/pallet).

#### WARNING

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. 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), Quartz Silica and 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

OPEN TIME CHART						
Temperature		Humidity				
		40%	60%	80%		
60°F (16°C)	Tack	2.5 Hours	2.5 Hours	2 Hours		
	Open	1 Hour	1 Hour	45 Minutes		
70°F (21°C)	Tack	2 Hours	2 Hours	1.5 Hours		
	Open	45 Minutes	45 Minutes	30 Minutes		
80°F (27°C)	Tack	1.5 Hours	1.5 Hours	1 Hour		
	Open	30 Minutes	30 Minutes	15 Minutes		
Note: This chart is for reference only; actual jobsite times may vary.						

CHEMICAL &	PHYSICAL PROPERTIES					
	Residential	Yes				
Use Environments	Offices/Light Commercial	Yes				
	Heavy Commercial	Yes				
	Offices	Yes				
	Hospital	Yes				
	Exterior	No				
	Wet Areas	No				
	Concrete	Yes				
	Plywood	Yes				
	OSB	Yes				
	Well-Bonded Vinyl	Yes				
Substrates	Terrazzo	Yes				
	Ceramic Tile Cement Backer Board	Yes Yes				
	Gypsum Underlayments*	Yes				
	Cement Patch/Underlayment	Yes				
	Solid Hardwood	Yes				
	Engineered Hardwood	Yes				
	Bamboo	Yes				
Flooring	Cork	Yes				
Types	Parquet	Yes				
	Plywood	Yes				
	Ceramic Tile, Marble, Stone Inlays*2	Yes				
	Cure Time*3					
	Light foot traffic	6 to 8 hours				
	Normal foot traffic	12 to 16 hours				
	Water Vapor Permeability*4 <0.6					
	Concrete Moisture Vapor Limits for subfloor moisture vapor protection:					
	For engineered and solid hardwood	None, dry to the touch				
	For Bamboo ≤ 15 lbs/					
	1000 sq.ft./24 hrs ASTM 1869 ≤ 15 lbs/					
	Calcium Chloride Method	≤ 15 lbs/ 1000 sq.ft./24 hrs				
	ASTM 2170					
Cured	Relative Humidity Test	≤ 87% RH				
Physical	ASTM E492-04 IIC	ASTM E492-04 IIC				
Properties	6" concrete slab with no ceiling 49 dB					
Properties		49 dB				
Properties	6" concrete slab with 1 layer					
Properties	6" concrete slab with 1 layer 5/8" gypsum board ceiling	49 dB 69 dB				
Properties	6" concrete slab with 1 layer 5/8" gypsum board ceiling ASTM E 2179 Increased					
Properties	6" concrete slab with 1 layer 5/8" gypsum board ceiling	69 dB				
Properties	6" concrete slab with 1 layer 5/8" gypsum board ceiling ASTM E 2179 Increased Impact Insulation Δ IIC	69 dB				
Properties	6" concrete slab with 1 layer 5/8" gypsum board ceiling ASTM E 2179 Increased Impact Insulation Δ IIC ASTM E90-09 STC	69 dB 21 dB				
Properties	6" concrete slab with 1 layer 5/8" gypsum board ceiling ASTM E 2179 Increased Impact Insulation Δ IIC ASTM E90-09 STC 6" concrete slab with no ceiling	69 dB 21 dB				
Properties	6" concrete slab with 1 layer 5/8" gypsum board ceiling ASTM E 2179 Increased Impact Insulation Δ IIC ASTM E90-09 STC 6" concrete slab with no ceiling 6" concrete slab with 1 layer	69 dB 21 dB 50 dB 66 dB >180%				
Properties	6" concrete slab with 1 layer 5/8" gypsum board ceiling ASTM E 2179 Increased Impact Insulation Δ IIC ASTM E90-09 STC 6" concrete slab with no ceiling 6" concrete slab with 1 layer 5/8" gypsum board ceiling	69 dB 21 dB 50 dB 66 dB >180% -40°F to 150°F				
Properties	6" concrete slab with 1 layer 5/8" gypsum board ceiling ASTM E 2179 Increased Impact Insulation Δ IIC ASTM E90-09 STC 6" concrete slab with no ceiling 6" concrete slab with 1 layer 5/8" gypsum board ceiling Elongation Service Temperature	69 dB 21 dB 50 dB 66 dB >180% -40°F to 150°F (-40°C to 66°C)				
Properties	6" concrete slab with 1 layer 5/8" gypsum board ceiling ASTM E 2179 Increased Impact Insulation Δ IIC ASTM E90-09 STC 6" concrete slab with no ceiling 6" concrete slab with 1 layer 5/8" gypsum board ceiling Elongation Service Temperature Ease of Troweling	69 dB 21 dB 50 dB 66 dB >180% -40°F to 150°F (-40°C to 66°C) Easy				
Properties	6" concrete slab with 1 layer 5/8" gypsum board ceiling ASTM E 2179 Increased Impact Insulation Δ IIC ASTM E90-09 STC 6" concrete slab with no ceiling 6" concrete slab with 1 layer 5/8" gypsum board ceiling Elongation Service Temperature Ease of Troweling Odor	69 dB 21 dB 50 dB 66 dB >180% -40°F to 150°F (-40°C to 66°C) Easy Mild				
Properties	6" concrete slab with 1 layer 5/8" gypsum board ceiling ASTM E 2179 Increased Impact Insulation Δ IIC ASTM E90-09 STC 6" concrete slab with no ceiling 6" concrete slab with 1 layer 5/8" gypsum board ceiling Elongation Service Temperature Ease of Troweling Odor Open/Working Time*5	69 dB 21 dB 50 dB 66 dB >180% -40°F to 150°F (-40°C to 66°C) Easy Mild 90 min				
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Uncured	6" concrete slab with 1 layer 5/8" gypsum board ceiling ASTM E 2179 Increased Impact Insulation Δ IIC ASTM E90-09 STC 6" concrete slab with no ceiling 6" concrete slab with 1 layer 5/8" gypsum board ceiling Elongation Service Temperature Ease of Troweling Odor Open/Working Time*5	69 dB 21 dB 50 dB 66 dB >180% -40°F to 150°F (-40°C to 66°C) Easy Mild 90 min Brown with black specks				
Uncured Physical	6" concrete slab with 1 layer 5/8" gypsum board ceiling ASTM E 2179 Increased Impact Insulation Δ IIC ASTM E90-09 STC 6" concrete slab with no ceiling 6" concrete slab with 1 layer 5/8" gypsum board ceiling Elongation Service Temperature Ease of Troweling Odor Open/Working Time*5 Color Density (lbs/gallon)	69 dB 21 dB 50 dB 66 dB >180% -40°F to 150°F (-40°C to 66°C) Easy Mild 90 min Brown with black specks 14.7				
Uncured	6" concrete slab with 1 layer 5/8" gypsum board ceiling ASTM E 2179 Increased Impact Insulation Δ IIC ASTM E90-09 STC 6" concrete slab with no ceiling 6" concrete slab with 1 layer 5/8" gypsum board ceiling Elongation Service Temperature Ease of Troweling Odor Open/Working Time*5 Color Density (lbs/gallon) Percentage of Water*6 Percentage of Adhesive Coverage Required:	69 dB 21 dB  50 dB  66 dB >180% -40°F to 150°F (-40°C to 66°C) Easy Mild 90 min Brown with black specks 14.7 0% For Moisture Protection For Bond				
Uncured Physical	6" concrete slab with 1 layer 5/8" gypsum board ceiling ASTM E 2179 Increased Impact Insulation Δ IIC ASTM E90-09 STC 6" concrete slab with no ceiling 6" concrete slab with 1 layer 5/8" gypsum board ceiling Elongation Service Temperature Ease of Troweling Odor Open/Working Time*5 Color Density (lbs/gallon) Percentage of Water*6 Percentage of Adhesive Coverage Required: Engineered	69 dB 21 dB 50 dB 66 dB >180% -40°F to 150°F (-40°C to 66°C) Easy Mild 90 min Brown with black specks 14.7 0% For Moisture Protection 100% 80%				
Uncured Physical	6" concrete slab with 1 layer 5/8" gypsum board ceiling ASTM E 2179 Increased Impact Insulation Δ IIC ASTM E90-09 STC 6" concrete slab with no ceiling 6" concrete slab with 1 layer 5/8" gypsum board ceiling Elongation Service Temperature Ease of Troweling Odor Open/Working Time*5 Color Density (lbs/gallon) Percentage of Water*6 Percentage of Adhesive Coverage Required:	69 dB 21 dB 50 dB 66 dB >180% -40°F to 150°F (-40°C to 66°C) Easy Mild 90 min Brown with black specks 14.7 0% For Moisture Protection 100% 80% 100% >95%				
Uncured Physical	6" concrete slab with 1 layer 5/8" gypsum board ceiling ASTM E 2179 Increased Impact Insulation Δ IIC ASTM E90-09 STC 6" concrete slab with no ceiling 6" concrete slab with 1 layer 5/8" gypsum board ceiling Elongation Service Temperature Ease of Troweling Odor Open/Working Time*5 Color Density (lbs/gallon) Percentage of Water*6 Percentage of Adhesive Coverage Required: Engineered	69 dB 21 dB 50 dB 66 dB >180% -40°F to 150°F (-40°C to 66°C) Easy Mild 90 min Brown with black specks 14.7 0% For Moisture Protection 100% 80% 100% >95% 50°F to 100°F				
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Uncured Physical	6" concrete slab with 1 layer 5/8" gypsum board ceiling ASTM E 2179 Increased Impact Insulation Δ IIC ASTM E90-09 STC 6" concrete slab with no ceiling 6" concrete slab with 1 layer 5/8" gypsum board ceiling Elongation Service Temperature Ease of Troweling Odor Open/Working Time*5 Color Density (lbs/gallon) Percentage of Water*6 Percentage of Adhesive Coverage Required: Engineered Solid Application Temperature	69 dB 21 dB 50 dB 66 dB >180% -40°F to 150°F (-40°C to 66°C) Easy Mild 90 min Brown with black specks 14.7 0% For Moisture Protection 100% 80% 100% >95% 50°F to 100°F (10°C to 38°C) 1-Part Urethane				
Uncured Physical Properties	6" concrete slab with 1 layer 5/8" gypsum board ceiling ASTM E 2179 Increased Impact Insulation Δ IIC ASTM E90-09 STC 6" concrete slab with no ceiling 6" concrete slab with 1 layer 5/8" gypsum board ceiling Elongation Service Temperature Ease of Troweling Odor Open/Working Time*5 Color Density (lbs/gallon) Percentage of Water*6 Percentage of Adhesive Coverage Required: Engineered Solid Application Temperature Chemistry Type Adhesive Type	69 dB  21 dB  50 dB  66 dB  >180%  -40°F to 150°F  (-40°C to 66°C)  Easy  Mild  90 min  Brown with black specks  14.7  0%  For Moisture Protection 100% 80% 100% >95% 50°F to 100°F (10°C to 38°C)  1-Part Urethane Moisture Cure				
Uncured Physical Properties	6" concrete slab with 1 layer 5/8" gypsum board ceiling ASTM E 2179 Increased Impact Insulation Δ IIC ASTM E90-09 STC 6" concrete slab with no ceiling 6" concrete slab with 1 layer 5/8" gypsum board ceiling Elongation Service Temperature Ease of Troweling Odor Open/Working Time*5 Color Density (lbs/gallon) Percentage of Water*6 Percentage of Adhesive Coverage Required: Engineered Solid Application Temperature	69 dB 21 dB 50 dB 66 dB >180% -40°F to 150°F (-40°C to 66°C) Easy Mild 90 min Brown with black specks 14.7 0% For Moisture Protection 100% 80% 100% >95% 50°F to 100°F (10°C to 38°C) 1-Part Urethane				
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'Dry, above grade. "Residential or light commercial only. "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. "Her ASTM E-96 Standard Test Methods for Water Vapor Transmission of materials. Ratings are g/m2-24 hour-mmHG. "Please refer to the Open/Working Time Chart. "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 and/or sound reduction, 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.)

Solid, engineered or bamboo wood flooring up to 5/8" thick. Coverage: 30-35 sq.ft. per gallon

Solid, engineered or bamboo wood flooring >5/8" thick, or plywood. 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.

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Bostik, Inc. 11320 W. Watertown Plank Road Wauwatosa, WI 53226 www.bostik.com/us

**BOSTIK HOTLINE** 

Smart help 1-800-726-7845

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