



# GreenGrip™

ADVANCED TRI-LINKING™ ADHESIVE, MOISTURE VAPOR CONTROL, & SOUND REDUCTION MEMBRANE

TECHNICAL DATA SHEET 01/29/2024

#### **SMART ADVANTAGES**

- Easy clean before and after cure
- Lifetime warranty for unlimited moisture vapor protection
- Superior bond strength & green grab

#### DESCRIPTION

GreenGrip™ is a high performance adhesive and moisture vapor control membrane all in one. Bostik's breakthrough AXIOS™ Tri-Linking™ Polymer Technology used in this formulation maintains the superior long term durability and moisture vapor protection properties of high end urethane adhesives. However, it is easier to spread and clean off of prefinished flooring before and after cure. This adhesive has zero VOC's (as calculated per SCAQMD Rule 1168) and does **NOT** contain any water. GreenGrip™ comes with Bostik's BLOCKADE® antimicrobial protection, which inhibits the growth of bacteria, mold or mildew on the surface of the cured membrane. The cured membrane resists stains caused by mold.

# SUPERIOR MOISTURE VAPOR PROTECTION

GreenGrip™ has extremely low moisture vapor permeability and is not adversely affected by moisture vapor. As a result, costly and time-consuming concrete moisture vapor testing is not required when the slab is properly prepared, dry to the touch and fully cured.

#### **ANTI-FRACTURE PERFORMANCE**

GreenGrip'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**

This high performance formulation may be used to adhere all engineered, solid, bamboo, cork, and parquet. GreenGrip™ 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, well bonded vinyl/VCT and ceramic tile, cement backer board, gypsum underlayments (dry, above grade), cement patch/underlayments, radiant-heat flooring.



properly prepared terrazzo, and recycled rubber underlayment. 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 NC-v2.2 EQ 4.1: Low-Emitting Materials—Adhesives & Sealants.

#### **DIRECTIONS FOR USE**

Read and understand data sheet completely before beginning installation. Follow industry standards, as well as 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 vapor content of substrate exceeds or is within the flooring manufacturer's recommendations, to address current or possible future subfloor moisture vapor, and cracks (up to 1/8"), apply GreenGrip™ as directed.

This supersedes and replaces in its entirety all previously published versions of this document, B149057



#### **SURFACE PREPARATION**

Surfaces must be absorptive, clean, 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, or shot blasting 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-150™, SL-175™, SL-200™, SL-Rapid™ or UltraFinish™ Pro).

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 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. If a thin skin forms on the adhesive on the slab prior to installation of the flooring, it may be possible to re-trowel the adhesive and obtain proper coverage and transfer. Re-trowel 90° to the ridges, and if no sign of the original trowel marks remains, install additional flooring and check coverage and transfer. Adhesive that has cured too much prior to installation of the flooring must be mechanically removed and fresh adhesive applied.

Although it is relatively easy to remove GreenGrip™ adhesive from the face of prefinished hardwood even after cure, it is recommended to clean with a non-abrasive towel as you work prior to cure. 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. 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. Using a recommended trowel, apply adhesive/membrane to substrate and then set plywood into the wet adhesive/membrane. For moisture vapor protection, ensure 100% coverage and transfer. Allow the adhesive/membrane to fully cure before nailing or using GreenGrip™ adhesive/membrane to install flooring. Make sure that nails do not penetrate through the GreenGrip™ membrane, doing so will void the moisture vapor protection warranty.

#### **CLEAN UP**

While GreenGrip™ bonds tenaciously to concrete and flooring, it is designed not to bond with most finishes on pre-finished flooring making it relatively easy to remove from the finish even after cure. Although it is relatively easy to remove after cure, it is recommended to clean with a non-abrasive towel as you work prior to cure. After cure, adhesive may be removed with a plastic scraper and dry, non-abrasive towel, taking care not to damage the finish. Immediately clean all tools and equipment before material cures.

**Trowel Clean-Up Tip:** Before use, cover areas of the trowel that are not used to spread the adhesive with duct tape or blue tape. After use, simply tear off tape before material cures, and clean the remainder of the trowel with a towel.

#### STORAGE/SHELF LIFE

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

**Re-seal partially used container:** Clean all adhesive residue off of the lip of the pail and the groove around the perimeter of the lid. Plastic (e.g., a trash bag) may be placed into the pail to cover the wet adhesive, especially in high humidity environments, but do not allow the plastic to extend outside of the pail and interfere with the seal of the pail with the lid. Use a rubber mallet to fully seat the lid on the pail. Do not turn the pail over.

**Re-open partially used container:** Remove the lid. Peel cured material away from pail and discard cured material and plastic from the top of the pail. Any uncured material may be used.

#### LIMITATIONS

- Periodically check coverage of adhesive during installation; 100% substrate coverage and adhesive transfer is required to protect against damages from subfloor moisture vapor.
- Due to limitations with solid and bamboo wood flooring (e.g., lack of dimensional stability), "below-grade" installations are limited to engineered hardwood flooring.
- 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 (10°C) and 95°F (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 from the slab 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
- · Please refer to flooring manufacturer's recommendations and NWFA's specifications for proper acclimation, verification of moisture vapor content of flooring with a moisture meter, and expansion relief around perimeter throughout installation
- Do not use vinyl-backed cork flooring or foamed backed parquet.
- This membrane does **NOT** reduce/affect issues originating from the sides, ends, or top of flooring (i.e. puddles, water, leaks, wet mopping, 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 plastic pails (36 pails/pallet).

IRRITANT. MAY IRRITATE EYES, SKIN OR RESPIRATORY TRACT. CONTENTS MAY BE HARMFUL IF SWALLOWED OR INHALED. Methanol may form during curing. Do not breathe fumes. Do not get in eyes, on skin or on clothing. Do not swallow. Handle with care. Use only in a well ventilated area or wear a mask. Wear protective clothing including gloves. Wash thoroughly after handling. Store in a cool, dry area. Do not reuse container.

### KEEP OUT OF REACH OF CHILDREN

#### **FIRST AID TREATMENT**

Contains Quartz Silica and diisodecyl phthalate (DIDP) inextricably bound in a polymer matrix. If in eyes or on skin, rinse with water for at least 15 minutes. If on clothes, remove clothing. 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    |                       |                     |             |  |
|--------------------|-----------------------|---------------------|-------------|--|
| Townswature        | Humidity              |                     |             |  |
| Temperature        | 40%                   | 60%                 | 80%         |  |
| 60°F (16°C)        | 2.3 Hours             | 2.0 Hours           | 1.0 Hours   |  |
| 70°F (21°C)        | 2.0 Hours             | 1.0 Hours           | 45 Minutes  |  |
| 80°F (27°C)        | 1.0 Hours             | 45 Minutes          | 30 Minutes  |  |
| Note: This chart i | s for reference only; | actual jobsite time | s may vary. |  |

| CHEMICAL 8              | PHYSICAL PROPERTIES  |   |  |  |  |
|-------------------------|--|---|--|--|--|
|                         | Residential  | Yes   |  |  |  |
| Use<br>Environments     | Offices/Light Commercial   | Yes   |  |  |  |
|                         | Heavy Commercial   | Yes   |  |  |  |
|                         | Offices  | Yes   |  |  |  |
|                         | Hospital   | Yes   |  |  |  |
|                         | Exterior   | No  |  |  |  |
|                         | Wet Areas  | No  |  |  |  |
|                         | Concrete   | Yes   |  |  |  |
| Substrates              | Plywood  | Yes   |  |  |  |
|                         | OSB  | Yes   |  |  |  |
|                         | Recycled Rubber Underlayment   | Yes   |  |  |  |
|                         | Well-Bonded Vinyl  | Yes   |  |  |  |
|                         | Terrazzo   | Yes   |  |  |  |
|                         | Ceramic Tile   | Yes   |  |  |  |
|                         | Cement Backer Board  | Yes   |  |  |  |
|                         | Gypsum Underlayments*  | Yes   |  |  |  |
|                         | Cement Patch/Underlayment  | Yes   |  |  |  |
| Flooring<br>Types       | Solid Hardwood   | Yes   |  |  |  |
|                         | Engineered Hardwood  | Yes   |  |  |  |
|                         | Bamboo   | Yes   |  |  |  |
|                         | Cork   | Yes   |  |  |  |
|                         | Parquet  | Yes<br>Yes  |  |  |  |
|                         | Plywood Coromic Tile, Marble   | res   |  |  |  |
|                         | Ceramic Tile, Marble,<br>Stone Inlays*2  | Yes   |  |  |  |
|                         | Cure Time*3  |   |  |  |  |
|                         | Light foot traffic   | 8 to 12 h   | ours   |  |  |
|                         | Normal foot traffic  | 12 to 24  |  |  |  |
|                         | Water Vapor Permeability*4 <0.4  |   |  |  |  |
|                         | Concrete Moisture Vapor Limits for subfloor  |   |  |  |  |
| Cured                   | moisture vapor protection:   |   |  |  |  |
| Physical                | ASTM 1869  | None, D   |  |  |  |
| Properties              | Calcium Chloride Method  | the To  |  |  |  |
|                         | ASTM 2170<br>Relative Humidity Test  | None, Dry to<br>the Touch   |  |  |  |
|                         | Elongation   | >100%   |  |  |  |
|                         |  | -40°F to 150°F  |  |  |  |
|                         | Service Temperature  | (-40°C to   |  |  |  |
|                         | ASTM E492-09   | IIC   |  |  |  |
|                         | 8" concrete slab with no ceiling   | 51 dl   | 3  |  |  |
| Sound                   | 8" concrete slab with 1 layer  | 66 d  | R  |  |  |
| Reduction               | 5/8" gypsum board ceiling  |   |  |  |  |
| Performance             | ASTM E90-09 S  |   |  |  |  |
|                         | 8" concrete slab with no ceiling   | 57 dB   |  |  |  |
|                         | 8" concrete slab with 1 layer<br>5/8" gypsum board ceiling   | 61 dB   |  |  |  |
|                         | 5/5 gypsuiii boaiu ceiliig   | 1-Part AX   | IOS™   |  |  |
|                         | Chemistry Type   | Tri-Link  |  |  |  |
| Chemical                |  | Polym   |  |  |  |
|                         |  |   |  |  |  |
| Criemical               | Adhasiya Typa  | Maist   | Cura   |  |  |
|                         | Adhesive Type  | Moisture  | Cure   |  |  |
|                         | Adhesive Type  VOC Compliant (calculated   |   |  |  |  |
|                         | VOC Compliant (calculated per SCAQMD Rule 1168)  | Yes (0 ş  | g/L)   |  |  |
|                         | VOC Compliant (calculated  | Yes (0 <sub>1</sub> >200°F (  | g/L)   |  |  |
|                         | VOC Compliant (calculated per SCAQMD Rule 1168)  | Yes (0 g<br>>200°F (<br>50°F to 1   | g/L)<br>93°C)<br>100°F                                 |  |  |
|                         | VOC Compliant (calculated per SCAQMD Rule 1168) Flash Point Application Temperature  | Yes (0 g<br>>200°F (<br>50°F to 1<br>(10°C to 2   | g/L)<br>93°C)<br>100°F<br>38°C)                        |  |  |
|                         | VOC Compliant (calculated per SCAQMD Rule 1168) Flash Point Application Temperature Ease of Troweling  | Yes (0 ) >200°F ( 50°F to 1 (10°C to 2) Excelle   | g/L)<br>93°C)<br>100°F<br>38°C)<br>ent                 |  |  |
|                         | VOC Compliant (calculated per SCAQMD Rule 1168) Flash Point Application Temperature Ease of Troweling Odor   | Yes (0 g >200°F (0 50°F to 1 (10°C to ) Excelle   | g/L)<br>93°C)<br>100°F<br>38°C)<br>ent                 |  |  |
|                         | VOC Compliant (calculated per SCAQMD Rule 1168) Flash Point Application Temperature Ease of Troweling Odor Open/Working Time*5   | Yes (0 ) >200°F (0 ) 50°F to 1 (10°C to 1) Excelle Milce 60 m                               | g/L)<br>93°C)<br>100°F<br>38°C)<br>ent<br>I            |  |  |
| Properties              | VOC Compliant (calculated per SCAQMD Rule 1168) Flash Point Application Temperature Ease of Troweling Odor Open/Working Time*5 Color   | Yes (0 g >200°F (0 g 50°F to 1 g (10°C to 1 g Excelle Milco 60 m Beig                       | g/L)<br>93°C)<br>100°F<br>38°C)<br>ent<br>I<br>in      |  |  |
| Properties  Application | VOC Compliant (calculated per SCAQMD Rule 1168) Flash Point Application Temperature Ease of Troweling Odor Open/Working Time*5 Color Density (lbs/gallon)  | Yes (0 g >200°F (0 g 50°F to 1 (10°C to 0) Excelle Milc 60 m Beig                           | g/L)<br>93°C)<br>100°F<br>38°C)<br>ent<br>I<br>in      |  |  |
| Application Properties  | VOC Compliant (calculated per SCAQMD Rule 1168) Flash Point Application Temperature Ease of Troweling Odor Open/Working Time*5 Color Density (lbs/gallon) Percentage of Water*6                        | Yes (0 g >200°F (0 g 50°F to 1 (10°C to 0 g Excelle Milc 60 m Beig 14.21                    | g/L)<br>93°C)<br>100°F<br>38°C)<br>ent<br>I<br>in      |  |  |
| Properties  Application | VOC Compliant (calculated per SCAQMD Rule 1168) Flash Point Application Temperature Ease of Troweling Odor Open/Working Time*5 Color Density (lbs/gallon) Percentage of Water*6 Percentage of Adhesive | Yes (0 g >200°F (0 f 50°F to 1 (10°C to Excelle Milco 60 m Beiging 14.2: 0% For Moisture    | g/L)<br>93°C)<br>100°F<br>38°C)<br>ent<br>I<br>in<br>e |  |  |
| Properties  Application | VOC Compliant (calculated per SCAQMD Rule 1168) Flash Point Application Temperature Ease of Troweling Odor Open/Working Time*5 Color Density (lbs/gallon) Percentage of Water*6                        | Yes (0 g >200°F (0 g 50°F to 1 (10°C to 0 g Excelle Milc 60 m Beig 14.21                    | g/L)<br>93°C)<br>100°F<br>38°C)<br>ent<br>I<br>in<br>e |  |  |
| Properties  Application | VOC Compliant (calculated per SCAQMD Rule 1168) Flash Point Application Temperature Ease of Troweling Odor Open/Working Time*5 Color Density (lbs/gallon) Percentage of Water*6 Percentage of Adhesive | Yes (0 g >200°F (0 f 50°F to 1 (10°C to 60 m Excelle 60 m Beigr 14.2! 0% For Moistrer Vapor | g/L)<br>93°C)<br>100°F<br>38°C)<br>ent<br>I<br>in<br>e |  |  |

- \*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.

  44 Per ASTM E-96 Standard Test Methods for Water Vapor Transmission of

- materials. Ratings are g/m2-24 hour-mmHG.

  \*5 Please refer to the Open/Working Time Chart.

  \*6 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.)

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 95% 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





1/8" x 1/8" x 1/8" 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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**BOSTIK HOTLINE** 

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