



GREEN BARRIER®

WATERPROOFING & CRACK PREVENTION MEMBRANE

- **GREEN FRIENDLY** - water-based formula, low odor
- **ELASTOMERIC** - crack isolation up to 1/8"
- **EASY TO USE** - roll or spray on application
- **FAST DRYING** - next-day tile application
- **HIGH PERFORMANCE** - exceeds ANSI 118.10 & 118.12 standards

APPLICATION

SURFACE PREPARATION

- NEW CONCRETE

Concrete must have a Concrete Surface Profile (CSP) between CSP4 and CSP6. To accomplish a CSP4-CSP6 finish, use a steel trowel and a broom to finish surface. Untreated new concrete substrates must be allowed to cure for 28 days prior to application of GREEN BARRIER. Substrates treated with VAPOR SHIELD can be coated with GREEN BARRIER after a cure time of 7 days. Substrate must be structurally sound, clean, and dry. Contaminants such as oil, acidic prep products, and cleaning products may prevent GREEN BARRIER'S ability to bond to the substrate. Ensure the surface is free from any and all foreign contaminants. If the application area is subject to wetness, necessary sloping must be done prior to the application of GREEN BARRIER.

- EXISTING CONCRETE

Concrete must be cleaned and scarified. All chips, divots, and chunks (defects) resulting from scarification must be repaired prior to application of GREEN BARRIER. SPEED MIX 2000, a fast-setting hydraulic repair mortar, can be used for such substrate preparations. Concrete must have a Concrete Surface Profile (CSP) between CSP4 and CSP6. Substrate must be structurally sound, clean, and dry. Contaminants such as oil, acidic prep products, and cleaning products may prevent GREEN BARRIER'S ability to bond to the substrate. Ensure the surface is free from any and all foreign contaminants. If the application area is subject to wetness, necessary sloping must be done prior to the application of GREEN BARRIER.

CRACK ISOLATION MEMBRANE

Use a 3/8" nap roller or an airless sprayer that produces 1900-2300 psi with flow. Ensure that the GREEN BARRIER extends past both sides of the crack a distance equal or more than the diagonal length of the tile. Fill any gaps between plywood, and where the floor meets any wall with material prior to application of full crack isolation membrane. Apply material over the entire surface at a 20 mil wet thickness to achieve a continuous crack isolation membrane. (146 sqft./gallon)

WATERPROOF MEMBRANE

METHOD OVERVIEW:

- 3/4" Nap Roller

- Airless Sprayer

Pressure: 1900-2300 PSI w/flow

Rate: 1.0-1.5 GPM

Tip Orifice Size: 0.025-0.029

GENERAL INSTRUCTIONS:

Apply a uniform coat using overlapping spray and roll strokes. The GREEN BARRIER will turn from its "Light Green" color to a "Dark Green" when the material has dried which typically takes 2 hours. Once dry, fill any pinholes and/or imperfections in the GREEN BARRIER with extra material and begin applying the second coat in a "Cross Hatch" pattern....

PRODUCT DESCRIPTION

Multicoat's GREEN BARRIER is a ready-to-use liquid applied, elastomeric waterproofing and crack isolation membrane for use in tile and stone applications. It is ideal for interior and exterior wood and masonry substrates such as cement, cement backer board and concrete. When applied with an airless sprayer or roller, GREEN BARRIER creates a super-bonding, seamless moisture/water barrier. Meets ANSI A118.10 for waterproofing membranes and ANSI A118.12 for crack isolation membranes.

GREEN BARRIER is designed for waterproofing under tile in showers for both residential and commercial use and meets Uniform Plumbing Code specifications for use as a shower pan liner.

GREEN BARRIER may also be used as a slab-on-grade moisture barrier under wear-resistant flooring.

AREAS OF USE

- Showers, Shower Pans
- Steam Rooms
- Interior/Exterior Moisture Barrier Applications
- Interior Waterproofing Applications

INTENDED SUBSTRATES

- Concrete
- Cement and/or magnesium cement backer boards TritonBoard®
- Exterior grade plywood (interior, dry areas for crack isolation only)
- Gypsum drywall

LIMITATIONS

GREEN BARRIER is not intended to be used as a wear surface and should always be covered by materials intended to be.

- Do not apply to surfaces that may be subject to temperatures less than 40° F (4° C) during the first 72 hours after application.
- Do not apply to surfaces that may be subject to wetness during the first 72 hours after application.
- Do not apply to surfaces that may be subject to 5-30 psi of hydrostatic pressure without the use of MULTICOAT VAPOR SHIELD.
- Do not apply to surfaces that may be subject to an excess of 30 psi of hydrostatic pressure.
- Do not apply GREEN BARRIER as an adhesive or thin set substitute.
- Do not apply to any existing control, expansion, saw-cut, cold, or construction joint as a bridge and/or cover.

...Periodically check the thickness with a wet film gauge. GREEN BARRIER must be applied at a thickness of at least 60 mils when wet and no more than 90 mils. (46-53 sqft./gallon)

INTERIOR DETAILS: Apply a heavy coat extending 6" in width on both sides in all corners, plane changes, and pipe penetrations prior to full application. In addition, fill any and all cracks [up to 1/8" (3mm)] in concrete substrates with GREEN BARRIER.

EXTERIOR DETAILS: Embed 6" or 12" wide polyester stitch bond fabric mesh into the membrane on every 90° angle (floor to wall union, steps, benches, etc).

CHANGE OF PLANE (INTERIOR): Waterproofing applications, especially in the commercial sector, require reinforcement of any plane change that may occur in the interior. To ensure necessary steps are being followed, contact our Technical Support before proceeding with any initialization of application for review and important recommendations. Applications include, but are not limited to:

- Any above grade structures that will be required to hold water permanently.
- Commercial floors that are exposed to wash downs, flooding, etc.
- All applications that contain a floor perimeter coming into contact with a shear wall or curtain wall.
- Floor penetrations such as drainage pipes, electrical conduit, light housings, etc.
- Any post-tensioned or pre-stressed above grade slabs.

DRAINS:

GREEN BARRIER must be applied to the bottom of the flange. The chosen drain unit must have a clamping ring and weep holes for the application of thin set. The drain should also be level with the substrate plane and completely fixated. Continue by following necessary steps outlined under "Application" when applying GREEN BARRIER. Around the perimeter of the drain, Embed 6" or 12" Polyester Stitch Bond Fabric (PSBF) into the first coat of GREEN BARRIER. Ensure the drainage hole itself is not obstructed by the Fabric (PSBF). Once dry, apply the second coat of GREEN BARRIER. When the 2nd coat is cured, use silicone caulk on the entirety of the union then clamp and tighten the upper flange to the GREEN BARRIER. Then, use silicone caulk on the entirety of the union between the GREEN BARRIER and the upper flange around the drain.

EXPANSION JOINTS:

As described prior, do not bridge any joints or gaps that are there to experience movement. Honor these joints all the way to the wear surface (tile) during the job application. To treat the joint properly, clean it prior to application of an open or closed cell backer rod. Install the rod to the proper depth specified by the Tile Council Handbook (EJ 171). Once installed, compress the architecturally specified sealant into the joint ensuring it contacts both sides and dries flush with the surface plane. Once the sealant is completely dry, place a bond breaking tape over the joint and continue to apply GREEN BARRIER making sure to overlap the tape. Follow any and all instructions under the "Application" section of this document. As a reminder, the tile installation to follow must honor the joints. **DO NOT BRIDGE THE JOINT.** Once the tile is set properly, you may fill the joint with the specified sealant following any architectural or manufacture specifications that may apply to the project.

CURING

GREEN BARRIER turns from a "Light Green" to a "Dark Green" when drying. This color change will take between 1-2 hours. The total drying time will depend on various job site conditions such as temperature, airflow, humidity, etc. In cold, humid conditions drying may take up to 12 hours. If a water test is required after application conduct the test 72 hours after installation.

CLEAN-UP

GREEN BARRIER can be cleaned with soap and water while still in liquid form. It is recommended to clean all tools, equipment and especially spray equipment while the material is still wet.

PROTECTION

If GREEN BARRIER is to be exposed for more than 24 hours use felt paper to protect the membrane from any punctures or scraping prior to the wear surface installation.

TILE INSTALLATION

When installing tile use a polymer-modified mortar that meets or exceeds ANSI A118.4 or A118.11 standards.

COVERAGE

Crack Prevention Membrane

1 gallon pail: 146 sq. ft.
at 20 mil thickness when wet

5 gallon bucket: 730 sq. ft.
at 20 mil thickness when wet

Waterproof Membrane

1 gallon pail: 46 - 53 sq. ft.
at 60 mil thickness when wet

5 gallon pail: 230 - 265 sq. ft.
at 60 mil thickness when wet

STORAGE

- Green Barrier is packaged in 1-Gallon Cans and 5-Gallon Pails.

- Store at 40°F to 90°F.

- Shelf life is approximately 18 months.

- Protect from freezing.

SAFETY

Avoid material contact with eyes. if it occurs, flush with water vigorously for 15 minutes and call a physician. Wash thoroughly after handling.

KEEP OUT OF REACH OF CHILDREN.

DO NOT INJECT.

DAMAGE LIMITATION

Seller shall not be liable for any damages, injury, loss, direct or consequential, resulting from its products. The parties intend that the limitation of damages, including consequential damages, applies even if the exclusive remedy provided for herein fails of its essential purpose.

EXCLUSIVE REMEDY

Seller's sole obligation, and buyers exclusive remedy shall be to replace material if found to be defective.

WARRANTY DISCLAIMER

There are no warranties which extend beyond the description of the fact hereof. Seller expressly disclaims all other warranties regarding the use of its products, whether expressed or implied, including the implied warranties of merchantability and for fitness of a particular purpose. Since use of the product is beyond the Seller's control, the Buyer assumes all risk of use.

WARRANTY

Materials are guaranteed with respect to uniformity and quality within manufacturer's specifications.

TECHNICAL DATA

Meets and exceeds ANSI A118.10 for load-bearing, bonded, waterproof membranes for thin-set ceramic tile and dimensional stone installations.

Meets and Exceeds ANSI A118.12 for crack isolation membranes.
Exceeds Uniform Plumbing Code specifications for use as a shower pan liner.

Green Barrier

TEST	DESCRIPTION	EVALUATION	ANSI SPECIFICATION
4.1	Mold Growth	Does not support	Shall not Support
4.3	Breaking Strength	525 PSI	170 PSI
4.4	Dimensional Stability (158°F)	-.19%	.7% Max Change
	(-15°F)	.35%	.7% Max Change
5.3	7 Day Shear Strength	241 PSI	>50 PSI
5.4	7 Day Water Immersion	179 PSI	>50 PSI
5.5	4 Week Shear Strength	229 PSI	>50 PSI
5.6	12 Week Shear Strength	134 PSI	>50 PSI
5.7	100 Day Water Immersion	140 PSI	>50 PSI
5.1.6	Accelerated Aging Shear Strength	372 PSI	>50 PSI
5.2	Point Load Test	1811 lbf (Average)	>1,000 lbf

