



Overview

Multicoat's GREEN BARRIER is a ready-to-use liquid applied, elastomeric waterproofing membrane for use under tile in showers. It creates a seamless "rubber like" membrane. Ideal for wood, and masonry surfaces such as concrete, cement backer board, exterior grade plywood and gypsum drywall. GREEN BARRIER is designed for waterproofing under tile in showers for both residential and commercial use.

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.

Application

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:

Roll

- 3/8" Nap Roller

Spray

- Airless Sprayer

Pressure: 1900-2300 PSI w/flow

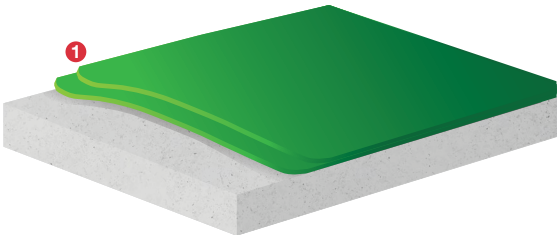
Rate: 1.0-1.5 GPM

Tip Orifice Size: 0.025-0.029

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. 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).

Quick Reference Guide

STEP	MATERIAL	PURPOSE	COVERAGE
1	Green Barrier	Waterproof Membrane	46-53 SqFt/Gallon (60 mil wet thickness)
OR			
1	Green Barrier	Crack Prevention Membrane	126 SqFt/Gallon (20 mil wet thickness)





Application (Cont.)

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). ***See "GREEN BARRIER OVERVIEW" for detailed instructions for drains and expansion joints***

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.

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

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.

Limitations

- **DO NOT** allow to get wet prior to thin set application.
- **DO NOT** apply if ambient air temperature is 40°F and falling or above 100°F and rising.
- **DO NOT** add other materials to the mixture of the product.
- **DO NOT** bridge joints designed to experience movement and carry these joints through the tile application.
- **DO NOT** apply any type of solvent material over GREEN BARRIER.

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.

Packaging and Storage

- GREEN BARRIER is packaged in 1 and 5 Gallon Pails.
- Store at 40°F to 90°F. *Keep from freezing*
- Shelf life is approximately 18 months.

LABORATORY TEST DATA ON NEXT PAGE

Laboratory Test Data

ANSI A118.10: Green Barrier – 40 mils wet thickness (TCNA-0219-21)			
Test Designation	Test Description	Evaluation	ANSI Specification
4.1	Mold Growth	Membrane does not support mold growth	"Membrane shall not support mold growth"
4.2	Seam Strength	116 lbf	16 lbf/2" width
4.3	Breaking Strength	286 PSI	170 PSI minimum
4.4	"Dimensional Stability Sample 1, direction 1 (158°F) Sample 1, direction 2 (158°F) Sample 2, direction 1 (-15°F) Sample 2, direction 2 (-15°F)"	"-0.37% -0.33% -0.08% -0.08%"	0.7% max. length change
4.5	Waterproofness	No moisture penetration	"No moisture penetration after 48 hrs"
5.0	Shear Strength to Ceramic Tile and Cement Mortar		
5.3	7-Day shear strength	147 PSI	> 50 PSI
5.4	"7-Day water immersion shear strength"	101 PSI	> 50 PSI
5.5	4-Week shear strength	243 PSI	> 50 PSI

ANSI A118.10: Green Barrier – 50 mils wet thickness (TCNA-0219-21)			
Test Designation	Test Description	Evaluation	ANSI Specification
4.1	Mold Growth	Membrane does not support mold growth	"Membrane shall not support mold growth"
4.2	Seam Strength	112 lbf	16 lbf/2" width
4.3	Breaking Strength	256 PSI	170 PSI minimum
4.4	"Dimensional Stability Sample 1, direction 1 (158°F) Sample 1, direction 2 (158°F) Sample 2, direction 1 (-15°F) Sample 2, direction 2 (-15°F)"	"-0.21% -0.23% -0.05% -0.09%"	0.7% max. length change
4.5	Waterproofness	No moisture penetration	"No moisture penetration after 48 hrs"
5.0	Shear Strength to Ceramic Tile and Cement Mortar		
5.3	7-Day shear strength	161 PSI	> 50 PSI
5.4	"7-Day water immersion shear strength"	103 PSI	> 50 PSI
5.5	4-Week shear strength	277 PSI	> 50 PSI

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Laboratory Test Data

ANSI A118.12: Green Barrier— 60 mils wet thickness (TCNA-0220-21)			
Test Designation	Test Description	Evaluation	ANSI Specification
4.1	Mold Growth	Does not support mold growth	""Membrane shall not support mold growth.""
5.1	Shear Strength to Ceramic Tile and Cement Mortar*		
5.1.3	7-Day shear strength	158 PSI	> 50 PSI
5.1.4	7-Day water immersion shear strength	93 PSI	> 50 PSI
5.1.5	"4-Week shear strength Shear strength @ 0.0625 in. deflecLon Shear Strength @ 0.125 in. deflecLon"	"225 PSI 114 PSI 205 PSI"	"> 50 PSI Standard Performance: 20 PSI High Performance: 20 PSI"
5.2	Point Load Test		
	Sample 1	1031 lbf	>1000 lbf
	Sample 2	1082 lbf	>1000 lbf
	Sample 3	1047 lbf	>1000 lbf
5.4	System Crack Resistance Test		
	Specimen 1: The specimen reached a gap opening of greater than 1/8" without tile failure. Note: 3 grout joints cracked at a gap opening of 0.128" (1/8")	"Standard performance: Tile failure occurs after 1/16"" specimen gap opening, but before 1/8"" gap opening. High performance: Tile failure does not occur by 1/8"" specimen gap opening."	
	Specimen 2: The specimen reached a gap opening of greater than 1/8" without tile failure. Note: 3 grout joints cracked at a gap opening of 0.128" (1/8")	"Standard performance: Tile failure occurs after 1/16"" specimen gap opening, but before 1/8"" gap opening. High performance: Tile failure does not occur by 1/8"" specimen gap opening."	
	Specimen 3: The specimen reached a gap opening of greater than 1/8" without tile failure. Note: 3 grout joints cracked at a gap opening of 0.128" (1/8")	"Standard performance: Tile failure occurs after 1/16"" specimen gap opening, but before 1/8"" gap opening. High performance: Tile failure does not occur by 1/8"" specimen gap opening."	

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