



COLOSSAL 117-EMB

Epoxy Moisture Barrier

PRODUCT DATA SHEET

623 Chatsworth Hwy. 225

Calhoun, GA 30701

888.871.8877

lamininindustries.com

PRODUCT DESCRIPTION

Colossal 117-EMB Epoxy Moisture Barrier is a two compound, epoxy-reaction, resin-based sealer for professional flooring installation over damp sub floors. Colossal 117 - EMB will mitigate moisture pressure from a humid sub floor to an acceptable level for any flooring installation. It will bridge minor cracks in the sub floor. Colossal 117-EMB spreads easily and creates a dust free surface, ready for safe installation of flooring. It increases the bonding of subsequently applied primers, leveling compounds and/or adhesives.

KEY FEATURES and BENEFITS

- * Exceeds all ASTM-F3010-13 requirements
- * Seals slab with any moisture content
- * Moisture barrier up to 25# or 100% rH
- * Contains no solvents
- * Freeze/ Thaw stable
- * Use under any flooring (wood, VCT, LVT, sheet vinyl, ceramic, etc.)
- * Contains no VOC (calc. per CA Rule 1168)
- * Improves bonding of Laminin adhesives
- * Spreads easily
- * High spread rate
- * Contains no isocyanates
- * Excellent penetration of sub floor
- * Suitable for radiant heat systems

APPROVED SUBSTRATE TYPES

- * Wet Concrete Slab up to 25#/ 24 hours/ 1000 SF and 100% RH
- * Properly installed and sound Laminin surface preparation products
- * Concrete slabs
- * Stone, Terrazzo
- * Cured Leveling Compounds
- * Felt backed sheet vinyl (well bonded, sanded, asbestos-free)
- * Radiant heat sub floors
- * Ceramic Tiles

APPROVED SURFACE PREPARATION PRODUCTS

- * Colossal 117-USL Urethane Self-Leveler
- * Colossal 117-CSL Cementitious Self-Leveler
- * Colossal 117-EPS Epoxy Prime and Seal
- * Colossal 117-MRS Moisture Resistant Smooth Skim

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PRODUCT LIMITATIONS & SURFACE PREPARATION

Colossal 117-EMB:

- * Do not install over substrates containing asbestos
- * Do not dilute primer/sealer or mix with other products
- * Uncured underlayments, primers, sealers

- * Sealer will not prevent moisture damages from hydrostatic pressure, missing or compromised vapor barriers, under ground springs, damaged water pipes, sinks, ice makers, faulty plumbing, flooding, etc.
- * When using other than Laminin products in conjunction with Laminin primers and sealers, leveling compounds or adhesives, Laminin denies any and all responsibility for any ensuing problems and/or damages without prior written authorization from Laminin Industries.

A successful installation requires proper preparation of the sub floor. Read and understand all applicable guidelines and technical data sheets before installation. Follow industry standards and flooring manufacturer's recommendations for the sub floor moisture content, design, layout and application of the flooring materials. All slab constructions must meet the specific requirements of the floor covering to be installed.

Prior to installation, the sub floor must be checked according to national standards. It must be solid and sound, level, free of indentations as well as resistant to pressure and tension. Depending on type and condition of sub floor, a mechanical treatment (e.g. mechanical brushing, grinding or sanding) may be required. Intensity of such work must be determined at the site by the installer. Dust, paint, residual adhesives or other surface contaminants must be removed by suitable means. Cleaning the surface with an industrial vacuum is recommended. Cracks and gaps must be filled with concrete crack filler unless they are expansion joints. Level when necessary to 3/16" within ten feet. Heated sub floors must be primed.

When using other than Laminin Industries products in conjunction with Laminin Industries primers, sealers, leveling compounds or adhesives, Laminin Industries denies any and all responsibility for any ensuing problems and/or damages without prior written authorization from Laminin Industries. This adhesive will maintain its integrity and performance even when high levels of moisture or water are present. While this adhesive can withstand any amount of moisture, it does not qualify as a moisture inhibitor. Please see above for recommended sealers if a moisture barrier is required. In case of accident, injury, spill or exposure, see SDS information sheet for appropriate action. Consult technical data sheet at lamininindustries.com for updated information. The foregoing representations are based on the results of our most current product and material testing within a controlled environment and are of a non-obligatory advisory nature only. As such, they do not constitute an express or implied warranty of any kind including the Warranty of Merchantability and/or Fitness for a Particular Purpose. Because we have no control over the actual quality of workmanship, materials used and worksite conditions, Laminin Industries, LLC will in no event be liable for any incidental and/or consequential damages. Therefore, we strongly recommend that prior on-site testing be conducted to refer to and study the suitability of the product for the intended purpose. With the release of this technical information sheet, all its prior versions become invalid. For warranty and warranty disclaimer information, please contact your Laminin Industries sales associate.

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MIXING INSTRUCTIONS

Lid contains hardener. Pierce all the way through plastic disc in the center of lid and the bottom of lid using a long screwdriver or similar tool. Let the hardener flow into the lower part of the bucket for one minute. All of the hardener must drain into the pail before mixing parts A and B. Open ring, remove the lid and mix both components with a mixing paddle for at least 3 minutes. Use an electric drill with less than 300 rpm until an even color is reached. Avoid air entrapment by mixing slowly and using an appropriate mixing paddle. Make sure to mix along wall and bottom of the container as well. Temperature of both components should be at least 50 degrees F before mixing.

INSTALLATION INSTRUCTIONS

Mix pail according to mixing instructions. Empty the pail on to the floor immediately after mixing to prevent the product from heating up and drying in the pail. Apply sealer undiluted with an approved applicator. Make sure the sealer is spread evenly and up to the perimeters. The spread rate is critical for a successful installation. Do not exceed maximum coverage.

For sub floor moisture up to 18#/24hour/1000 SF (Calcium Chloride test) or a 97% RH (in-situ probe), spread sealer over no more than 140 SF/ gallon. For sub floors with moisture content up to 25#/24 hour/1000 SF or 100% RH, spread sealer over no more than 70 SF/gallon.

POST APPLICATION

* Dry time is between 12 and 18 hours, completely hardened after 7 days

CLEAN UP PROCEDURES

- * Do not allow to harden on tools
- * Clean up while product is still wet

ADDITIONAL TECHNICAL INFORMATION

Viscosity	500 cps
VOCs (Rule #1168 of California's SCAQMD)	< 0 g per L
Density	8.9 lbs. per U.S. gal.
pH Limit	14
Compression Strength [psi] EN ISO 604	26,100
Flexural strength [psi] EN ISO 178	10,150
Tensile Strength [psi] EN ISO 527	5,800
Shore D Hardness (ISO 7619)	D 80



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Trowels Recommendations_	Coverage
7/64' x 5/64'' Sawtooth notch	up to 70 SqFt/Gal
Foam Roller	up to 150 SqFt/Gal
Pot Life_	Approximately 25 minutes @ 70 F°
Traffic Restrictions	Approximately 12-18 Hrs, completely hardened after 7 days
Application Temperature	50-90 F°
Application Relative Humidity	30-80%
Packing Size_	2-1/2 gal. Metal Combo Pail (A+B)
Material Type_	2-part Epoxy Resin
Shelf Life	24 months in unopen container in a controlled in environment
Color_	Part A: Clear , Part B: Yellow
Mixing Ratio	2 Parts A + 1 Part B by weight 1.8 Part A + 1 Part B by volume