



COLOSSAL 117-MRSS

Moisture Resistant Smooth Skim

PRODUCT DATA SHEET

623 Chatsworth HWY 225 Calhoun, GA 30701 888.871.8877 lamininindustries.com

PRODUCT DESCRIPTION

Colossal 117-MRSS Moisture Resistant Smooth Skim is a high quality, cement-based compound designed to skim coat, smooth and level irregularities from a feather edge up to 1/2" (12 mm). It rapidly sets to install most floorings in as little as 15-20 minutes, with exceptional performance. Colossal 117-MRSS has superior bond strength. For most applications, the use of a primer is not required. Excellent for use over most substrates and provides a suitable surface for even the most demanding flooring, such as VCT, sheet vinyl, etc.

KEY FEATURES and BENEFITS

- * Self Drying
- * Fast setting - Install flooring as soon as 15-20 minutes
- * Feather edge up to 1/2" (12mm)
- * Sandable
- * Contributes to LEED project points
- * Zero VOC

APPROVED SUBSTRATE TYPES

- | | |
|--|--|
| * Concrete | * Ceramic Tile, Pavers, Brick |
| * Properly installed and sound Laminin surface preparation products | * Epoxy Terrazzo |
| * Cement Backerboards | * Vinyl Composition Tile (VCT), embossed resilient coverings - must be bonded well to an approved substrate and be single layer ** |
| * Quarry Tile | * Adhesive residue (except tacky or pressure-sensitive adhesive) ** |
| * Exterior Grade Plywood, c-c (plugged) or better | * Gypsum substrates (minimum tensile bond strength 72 psi (0.5 MPa) ** |
| * Exterior Grade Lauan Plywood - Type I Trademarked Exterior Grade, OVL, CC, BB.OVL face grades only (NOTE: Lauan plywood is an unacceptable substrate for installation of resilient, ceramic, or marble tile) | |
| * *Denotes Priming is suggested. Priming is required for gypsum substrates | |

APPROVED SURFACE PREPARATION PRODUCTS

- | | |
|--|---|
| * Colossal 117-USL Urethane Self-Leveler | * Colossal 117-EMB Epoxy Moisture Barrier |
| * Colossal 117-CSL Cementitious Self-Leveler | * Colossal 117-EPS Epoxy Prime and Seal |

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PRODUCT LIMITATIONS & SURFACE PREPARATION

Colossal 117-MRSS:

** Use when the substrate temperature is between 50 degrees F and 90 degrees F. For temperatures above 85 degrees F, follow the American Concrete Institute (ACI) hot weather application guidelines to ensure a successful installation.

* Do not apply over self-stick tile, strip wood, particleboard, flakeboard, plank or other dimensionally unstable substrates

* Do not use in areas prone to hydrostatic pressure

* All substrates must be structurally sound, dry, solid and stable

** Substrate must be clean and free of dust, dirt, oil, grease, paint, curing agents, concrete sealers, loosely bonded toppings, loose particles, old adhesive residues, and any other substance of condition that may prevent or reduce adhesion

* Do not mix with any other patching compounds

** Concrete and cementitious substrates must be fully cured and free of any hydrostatic pressure and excessive moisture (RH of 95% or lower). Any protrusions on the surface must be removed by sanding, scraping or chipping. Vacuum all dust before application. DO NOT cover existing building expansion or control joints.

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.



MIXING INSTRUCTIONS

* Before product use, take appropriate safety precautions. Refer to the Safety Data Sheet for details.

General Mixing:

1. Mix only as much Colossal 117-MRSS Moisture Resistant Smooth Skim that can be used in a 15 - 20 minute time period. USE IMMEDIATELY after mixing.
2. Add the bag of Colossal 117-MRSS slowly into a 2.25-2.50 quarts of clean, cool water while mixing at a low speed (not exceeding 300 rpm to prevent entraining air). For smaller amounts, use a mixing ratio of 2 parts powder to 1 part water.
3. Mix thoroughly into a smooth, lump-free consistency. Do not over water.

NOTE: Cool weather conditions may require a longer mixing time or additional hose length to ensure the best product performance.

INSTALLATION INSTRUCTIONS

Read all instructions thoroughly before installation:

1. After mixing, immediately work Colossal 117-MRSS into the void to be filled with a flat, steel trowel and finish to a level surface with the required smoothness.
2. Make sure that the concrete substrate and ambient room temperatures are between 50 degrees F and 90 degrees F before application. This product has a 15 - 20 working time depending on the temperature. Working time is shortened with higher temperatures.
3. Any repairs greater than 1/2" (12mm) in thickness will require two applications. Allow the first application to set before applying the second. Do not exceed a total thickness of 1" (25mm) of Colossal 117-MRSS. Do not over work the product.

POST APPLICATION

* Colossal 117-MRSS Moisture Resistant Smooth Skim is ultra-fast drying and can tolerate foot traffic and installation of most floor covering materials in as little as 15 - 20 minutes and up to 60 minutes, depending on thickness and substrate.

CLEAN UP PROCEDURES

- * Do not allow to harden on tools
- * Cured material will be to be mechanically removed

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ADDITIONAL TECHNICAL INFORMATION

Compressive strength – ASTM C109 (CAN/CSA-A5)	
24 Hours	3600 psi
VOCs (Section 01350 of California's CDPH)	0 g per L
pH	11 to 13

Shelf life	1 year when stored in original, unopened packaging at 73°F in a controlled area
Physical state	Powder
Color	Gray
Application Temperature	50°F to 90°F
Application Thickness	1/8" to 1/2"
Packing Size	Bag: 10 lbs.

Protect packaging from freezing in transit and storage. Provide for heated storage on site and deliver all materials at least 24 hours before work begins

Mixing ratio	2.25 to 2.5 U.S. qts. of water per 10 lbs. of powder
Working time*	15-20 minutes
Install Flooring**	15 to 60 minutes

* Working time varies based on environmental conditions.

**Dependent on thickness of compound.

Approximate Coverage- 10 lb. Bag	
1/8" Thickness	30-36 sq. ft.
1/4" Thickness	15-18 sq. ft.
1/2" Thickness	7.5-9 sq. ft.
Embossing	300-500 sq. ft.