

## PRODUCT DESCRIPTION

**MavClad EM** is a heavy-duty, 100% solids epoxy polymer resin and aggregate floor system engineered for floors subjected to chemical exposure and mechanical abuse. Applied at 1/4" by trowel, this durable, seamless system is commonly utilized in new construction as a protective overlay or in renovation work to restore worn concrete surfaces.

## FEATURES & BENEFITS

- Abrasion and impact resistant
- Seamless, monolithic 1/4" application
- Durable, chemically resistant finish
- Available in a wide array of colors
- Zero VOC, very low odor
- 100% solids — no solvents
- Fills coves, keyways, and chases

## RECOMMENDED USES

- Warehousing and manufacturing facilities
- Chemical processing plants
- Laboratories, hospitals, and healthcare facilities
- Correctional facilities
- Traffic aisles and assembly lines
- Cafeterias and commercial kitchens

## PRODUCT INFORMATION

PRODUCT NAME	PACKAGING	COLOR/FINISH	TYPICAL APPLICATION
MavClad EM Epoxy Mortar	15-Gallon Unit + 50 lb. Aggregate	Standard Color Packs	1/4" Trowel Applied Topping

MavClad EM mortar combines 3 gallons of mixed epoxy binder with 200 lbs. of trowel aggregate per mix. Finish texture — gloss, orange peel, or satin — is selected with the topcoat; Maverick offers a complete line of pigmented topcoats for UV, chemical, and traffic resistance.

## TECHNICAL DATA

PHYSICAL DATA	
Components	3 (Resin, Hardener, Aggregate)
Mix Ratio (by volume)	2 Resin : 1 Hardener
Binder : Aggregate	3 gal mixed : 200 lbs.
Color	Standard Color Packs
Finish	Gloss, Orange Peel, or Satin
Solids by Volume	100%
VOC	0 g/L
Pot Life @ 77°F	25 minutes
Shelf Life	1 year
Storage Environment	Dry area, 65-80 °F

Higher temperatures will shorten pot-life and working time.

THEORETICAL COVERAGE	
Mortar (1/4" nominal)	120 sq. ft. per mix
Primer — MavPrime EP	175-250 sq. ft./gal.
Grout Coat — MavCoat OPE	175 sq. ft./gal.

CURE TIMES	72°F (22°C) 50% RH
Foot Traffic	12-24 hours
Light Service	24 hours
Full Service	48-72 hours
Recoat Window	Within 24 hours *

\*Apply grout coat or topcoat within 24 hours of the initial application at 70°F. If the recoat window is missed, the surface must be sanded before recoating.

## PRODUCT INFORMATION

PHYSICAL PROPERTIES	TEST METHOD	RESULTS
Compressive Strength	ASTM C-579	13,250 psi
Tensile Strength	ASTM D-638	8,650 psi
Flexural Strength	ASTM C-580	5,000 psi
Hardness, Shore D	ASTM D-2240	75-90
Bond Strength	ASTM D-4541	350 psi (concrete failure)
Abrasion Resistance	ASTM D-4060	75 mg loss
Volume Solids	—	100%

Data reflects typical results based on laboratory testing under controlled conditions at 70°F. Variations from the data shown may result. Test methods are modified where applicable.

## SURFACE PREPARATION

Apply only to clean, dry, and sound concrete substrates free of all coatings, sealers, curing compounds, oils, greases, or other contaminants that may affect adhesion. Remove any laitance or weak surface layers. Concrete must have a minimum surface tensile strength of 300 psi per ASTM D-4541.

### MOISTURE VAPOR:

Moisture vapor transmission must not exceed 3 lbs. per 1,000 sq. ft. per 24 hours (calcium chloride test, ASTM E-1907), and relative humidity must be below 75% per ASTM F-2170. Where MVT or moisture is present, or on green concrete, prime with **MavCoat MVB** Moisture Vapor Barrier. Do not apply to slabs on grade unless an unruptured vapor barrier is installed beneath the slab.

## SAFETY AND TECHNICAL

Refer to the SDS before use. Safety precautions must be strictly followed during storage, handling, and use. Wear personal protective equipment consistent with OSHA regulations, including safety glasses with side shields and nitrile gloves. For additional technical or safety data, visit [maverickperformancesolutions.com](http://maverickperformancesolutions.com).

## APPLICATION EQUIPMENT

Assemble all equipment. Equipment will include (but is not limited to):

- Mechanical jiffy-type mixing blade and drill
- Concrete or mortar mixer for aggregate blending
- Screed box or gauge rake set to depth
- Power trowel or steel finishing trowel
- Spiked shoes
- Mixing vessels, tape, and surface thermometer

### PROFILE:

New concrete must be cured a minimum of 28 days. Prepare the surface by mechanical means — diamond grind or shotblast — to CSP-3 to CSP-5 per ICRI Guideline 310.2, producing a profile equal to 60-grit sandpaper or coarser. Concrete contaminated with chemicals or foreign matter must be neutralized or removed. All cracks, expansion joints, and control joints must be properly addressed prior to application.

To reduce outgassing from porous slabs, apply primer while substrate temperature is falling (typically evening), verified with a surface thermometer. Double priming greatly reduces outgassing by filling pores.

## TEMPERATURE

Application, ambient	50-95 °F
Substrate	Min. 5 °F above dew point
Storage	65-80 °F, dry area

## APPLICATION PROCEDURE

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1. Prime the prepared concrete with MavPrime EP at 175–250 sq. ft. per gallon. For green concrete or where moisture vapor is present, prime with MavCoat MVB.
2. Premix MavClad EM Part A resin prior to use to redisperse any additive separation from transport and storage.
3. Combine Part A resin and Part B hardener (2:1 by volume) in a clean mixing vessel. Mix with a mechanical jiffy-type mixer at low speed.
4. Pour the catalyzed binder into a concrete or mortar mixer. Add trowel aggregate (200 lbs. per 3 gallons of mixed binder) and mix thoroughly.
5. Apply the mortar with a screed box or gauge rake set to 1/4". Compact and finish smooth with a power trowel or steel finishing trowel.
6. After cure, sand the surface to remove trowel marks and imperfections; vacuum clean. Apply the optional MavCoat OPE grout coat for a smoother finish.
7. Mix MavCoat OPE Part A and Part B (1:1 by volume) and pull a tight grout coat over the surface at approximately 175 sq. ft. per gallon, filling voids and pinholes.
8. Once the grout coat is tack-free (within ~10 hours at 70°F) and inside the 24-hour recoat window, apply the specified pigmented Maverick topcoat for texture, finish, chemical, and UV resistance.

## LIMITED WARRANTY

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Maverick warrants its products to be free from defects in material and workmanship. Maverick's sole obligation and Buyer's exclusive remedy in connection with the products shall be limited, at Maverick's option, to either replacement of products not conforming to this warranty or credit to Buyer's account in the invoiced amount of the nonconforming products. Any claim under this warranty must be made by Buyer to Maverick in writing within five days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life or one year from the delivery date, whichever is earlier. Buyer's failure to notify Maverick of such nonconformance as required herein shall bar Buyer from recovery under this warranty. Maverick makes no other warranties concerning this product. No other warranties, either expressed or implied, or statutory, such as warranties of merchantability or fitness for a particular purpose, shall apply. In no event shall Maverick be liable for consequential or incidental damages. Any recommendation or suggestion relating to the use of the products made by Maverick, whether in its technical literature, or in response to a specific inquiry, or otherwise, is based on data believed to be reliable; however, the products and information are intended for use by Buyers having requisite skill and know-how in the industry, and it is for the Buyer to satisfy itself of the suitability of the products for its own particular use. Variation in environment, changes in procedures of use, or extrapolation of data may cause unsatisfactory results. Maverick cannot guarantee that color will conform to sample, if provided.

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## LIMITATIONS

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- Like all epoxies, MavClad EM is not fully color stable without a UV-stable pigmented topcoat.
- Not designed for exterior use or constant immersion service.
- Floors should be sloped to drain to prevent standing water or chemicals.
- Confirm product performance in the specific chemical environment prior to use.
- Do not apply to slabs on grade without an unruptured vapor barrier beneath the slab, or where moisture or MVT exceeds limits.
- For industrial and commercial use — installation by trained personnel only.

## TECHNICAL ASSISTANCE

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Information is available by calling Maverick at 313-889-2526, Monday through Friday, 8 AM to 5 PM ET, or at [maverickperformancesolutions.com](http://maverickperformancesolutions.com).