

PRODUCT DESCRIPTION

MavClad EM is a heavy-duty polymer resin and aggregate floor system suited for floors subjected to chemical exposure and mechanical abuse. Applied at 1/4", this durable system is commonly utilized for new construction as a protective overlay or for renovation work to restore concrete surfaces.

FEATURES & BENEFITS

- Abrasion and Impact Resistant
- Seamless, monolithic application
- Durable finish, chemical resistant
- Available in a wide array of colors
- Zero VOC, very low odor

RECOMMENDED USES

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

PRODUCT INFORMATION

PRODUCT NAME	SIZE	COLOR/FINISH	ITEM NUMBER
MavClad EM Epoxy Binder	15-Gallon Kit	Pigmented	Consult Maverick
MavClad EM Trowel Aggregate	50 lb. Bag	N/A	Consult Maverick

Variety of color pack options available. MavClad EM is available in Gloss, Orange Peel, or Satin Finish. Primer: MavCoat PC @ 200 sqft/gal. Optional Grout Coat: MavSeal UPA @ 175 sqft/gal.

TECHNICAL DATA

PHYSICAL DATA	VALUE	APPLICATION DATA	VALUE
Components	2 (Epoxy + Hardener)	Generic Description	Trowel Applied Epoxy Topping
Solids by Volume	100%	Typical Application	1/4" Trowel Applied Topping
VOC	0 g/L	Coverage (Mortar)	120 sqft/mix (3 gal binder + 200 lbs agg)
Mix Ratio (by volume)	2 Resin : 1 Hardener	Primer Coverage	200 sqft/gal (MavCoat PC)
Standard Colors	Color pack options available	Grout Coat Coverage	175 sqft/gal (MavSeal UPA)

INSTALLATION DATA	VALUE
Storage Environment	Dry area, 65–80°F
Application Temp, Ambient	50–95°F
Application Temp, Substrate	Minimum 5°F above dew point
Shelf Life	1 year
Pot Life @ 77°F	25 minutes
Foot Traffic @ 77°F	12–24 hours
Service @ 77°F	Light: 24 hours / Full: 48–72 hours
Recoat Window	Within 24 hours at 70°F

PHYSICAL PERFORMANCE PROPERTIES

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
Abrasion Resistance	ASTM D-4060	75 mg loss
Volume Solids	—	100%

The data shown above reflects typical results based on laboratory testing under controlled conditions. Variations from the data shown may result. Test methods are modified where applicable.

IMPORTANT INFORMATION

Like all epoxies, MavClad EM is not 100% color stable without use of UV stable topcoat. Not designed for exterior use or constant immersion applications. Floors should be sloped to drain to prevent standing water or chemicals. Confirm product performance in specific chemical environment prior to use. Do not apply to slabs on grade unless a heavy unruptured vapor barrier has been installed under the slab or where moisture or MVT is present. Always use protective clothing consistent with OSHA regulations during use. Refer to Material Safety Data Sheet for detailed safety precautions. For industrial/commercial use. Installation by trained personnel only.

SURFACE PREPARATION

Concrete and coated concrete surfaces must be sound, clean, dry and free of contaminants such as dirt, dust, grease, oil, silicones and other contaminants that may negatively affect adhesion.

- New concrete should be cured a minimum of 28 days.
- Concrete that has been contaminated with chemicals or other foreign matter must be neutralized or removed.
- Remove any laitance or weak surface layers.
- Concrete should have a minimum surface tensile strength of at least 300 PSI per ASTM D-4541.
- Surface profile shall be CSP-3 to CSP-5 meeting ICRI standard guideline #03732, producing a profile equal to 60-grit sandpaper or coarser.
- Moisture vapor transmission should be 3 pounds or less per 1,000 sq ft per 24 hours (ASTM F1869). RH must not exceed 75% (ASTM F2170).
- All surface irregularities, cracks, expansion joints and control joints should be properly addressed prior to application.

APPLICATION PROCEDURE

Mix Ratio: MavClad EM 2:1 Resin to Hardener

Primer:

Mortar:

1. Prime concrete surface with MavCoat PC @ 175–250 sqft/gallon. Primer coat of PC may be thinned with up to 5% Xylene. Or prime with MavCoat MVP for green concrete applications.
2. MavCoat PC Part A Resin should be premixed prior to use due to possible additive separation that can occur during transportation and storage.
3. Combine MavCoat PC Part A Resin and Part B Hardener in a separate mixing vessel. Mix with a mechanical jiffy-type mixer operated at low speed.
4. Pour catalyzed liquid into a concrete or mortar mixer. Add Trowel Aggregate (200 lbs per 3 gallon of binder) and mix thoroughly.
5. Apply mortar coat with a screed box or a rake set at the appropriate height. Trowel smooth using a power trowel or a steel finishing trowel.

Grout Coat:

6. Sand the surface to remove any trowel marks or imperfections.
7. Repeat steps 3 and 4 above to prepare grout coat mixture.
8. Apply a grout coat by pulling a trowel tightly over the surface at a coverage rate of approximately 150–250 sqft/gallon. The grout coat should fill any slight voids or surface imperfections and provide a smooth finish.
9. After the grout coat has become tack free (within approximately 10 hours of cure @70°F and before exceeding 24 hour recoat window), apply a MavClad topcoat if desired for texture, finish or UV stability.
10. Maverick offers a complete line of topcoats for increased resistance to UV exposure, chemicals, and high traffic.

SHELF LIFE AND STORAGE

12 months from date of manufacture when stored indoors in the original unopened container at 60°F – 85°F (16°C – 29°C) in a dry location with humidity below 65%. Do not allow materials to freeze.

LIMITED WARRANTY

Maverick warrants this product to be free from defect in the material that affects its performance for a period of one year (from date of purchase). Maverick will replace at no charge the quantity of the Coating that Maverick determines has failed to perform, as the sole and exclusive remedy for any breach of this warranty and/or any other defect or failure of the coating. Proof of purchase is required. Cost of labor for application of any product specifically is excluded. Warranty is void if Maverick products are mixed with or used in conjunction with materials that are substituted for Maverick products. Warranty is nontransferable.

CLEAN UP & DISPOSAL

Clean up mixing and application equipment immediately after use. Use acetone or xylene; do not use alcohol. Follow solvent manufacturer's safety instructions. Be sure to follow all local, state and federal regulations when disposing of materials.

MAINTENANCE

To maintain the appearance and extend the life of the newly sealed surface, it is imperative to have a routine maintenance program. Dirt and debris that is tracked over a finished floor will quickly scratch and dull the surface. Place walk-off mats at entrances. Sweep and mop/scrub floors regularly using soft bristles/pads and a mild cleaner. Some cleaning products and equipment or improper use of these can damage a surface. Remove spills quickly to minimize damage and/or stains. For systems that support parked vehicles or other heavy items on rubber wheels, place a small piece of nonporous material, such as sheet metal or plexiglass between the tires and floor to prevent tire marks. Reapplication may be necessary in heavy traffic areas.

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PRODUCT DATA SHEET: 02/04/2026 | All rights reserved. Published technical data and instructions are subject to change without notice. Please contact Maverick for the most current technical data, safety data and application instructions.