MAVERICK
PERFORMANCE SOLUTIONS

MAVCOAT CRE PRODUCT DATA SHEET

NOTE: PLEASE READ AND REVIEW THESE INSTRUCTIONS PRIOR TO INSTALLATION OF THIS PRODUCT. OTHER MAVERICK PRODUCTS MAY BE USED WITH THIS PRODUCT. CONTACT MAVERICK TECHNICAL SUPPORT AT **SALES@MAVTECHSOL.COM** OR **313-889-2526**.

DESCRIPTION

MavCoat CRE is a two-component, 100% solids, chemical resistant epoxy floor coating engineered to deliver a high-gloss, seamless, hygienic surface in the most demanding chemical environments. Applied over MAVPRIME EP on a properly prepared CSP 3–5 profile, this system cures to a monolithic finish with outstanding resistance to a broad spectrum of acids, solvents, fuels, and cleaning agents. Pigmented with Maverick color packs, it delivers consistent hide across the full color catalog. Color quartz or vinyl flake broadcasts can be incorporated for decorative, non-skid, or functional finishes. MavCoat CRE is the system of choice for food & beverage production, chemical processing, laboratory, and healthcare environments where coating failure is not an option.

PRODUCT INFORMATION

PRODUCT NAME	SIZE	COLOR / FINISH
MAVPRIME EP — 100% Solids Epoxy Primer	1.5-Gallon Kit	Clear / Gloss
MavCoat CRE — Chemical Resistant Epoxy, Part A	2-Gallon	Clear base / Pigmented w/ color pack
MavCoat CRE — Chemical Resistant Epoxy, Part B	1-Gallon	Clear
MavCoat CRE — Chemical Resistant Epoxy, 15-gal unit	15-Gallon Kit	Clear base / Pigmented w/ color pack
MavTints — Floor Coating Pigment Packs	16-Ounce	Standard Color Range

COVERAGE RATES

PRODUCT NAME	WET FILM THICKNESS	DRY FILM THICKNESS	COVERAGE RATE
MAVPRIME EP — 100% Solids Epoxy Primer	3 – 8 mils	3 – 8 mils	200 – 533 sq. ft./gal.
MavCoat CRE — Chemical Resistant Epoxy (1st coat)	8 – 16 mils	8 – 16 mils	100 – 200 sq. ft./gal.
MavCoat CRE — Chemical Resistant Epoxy (2nd coat)	8 – 16 mils	8 – 16 mils	100 – 200 sq. ft./gal.

PHYSICAL PROPERTIES

TEST NAME	TEST METHOD	RESULT
Adhesion to Concrete	ASTM D7234	> 425 PSI (100% Concrete Failure)
Compressive Strength	ASTM C-579	9,200 psi
Tensile Strength	ASTM D-638	1,650 psi
Flexural Strength	ASTM C-580	4,000 psi
Hardness, Shore D	ASTM D-2240	85 – 90
Taber Abrasion (CS-17 Wheel, 1000 mg. Load, 1000 Cycles)	ASTM D4060	80 mg Loss
Volume Solids	—	100%
VOC	EPA Method 24	Zero VOC (< 5 g/L)
Mix Ratio (A:B by volume)	—	2:1
Pot Life @ 77°F	—	25 minutes
Foot Traffic @ 77°F	—	12 – 24 hours
Full Service @ 77°F	—	48 – 72 hours
Recoat Window	—	Within 24 hours at 70°F
Application Temperature (Ambient & Substrate)	—	50 – 95°F; min. 5°F above dew point
Gloss @ 60°	ASTM D523	High Gloss

CHEMICAL RESISTANCE

CHEMICAL	RESULT
10% Acetic Acid	G
Vinegar	G
10% Citric Acid	G
10% Hydrochloric Acid	G
30% Hydrochloric Acid (muriatic)	G
10% Nitric Acid	G*
50% Phosphoric Acid	F
10% Sulfuric Acid	G
37% Sulfuric Acid	F
70% Sulfuric Acid	F
20% Ammonium Nitrate	E
20% Sodium Chloride	E
50% Sodium Hydroxide	E

CHEMICAL	RESULT
Methyl Ethyl Ketone	G
Xylene	F
Ethylene Glycol	G
Isopropyl Alcohol	F
Mineral Spirits	E
Brake Fluid	F
Transmission Fluid	E
Motor Oil	E
50:1 Gas/Oil Mixture	E
E85 Gasoline	E
E95 Gasoline	E
Unleaded Gasoline	G
Skydrol	E

CHEMICAL	RESULT
Betadine	G*
Bleach	E
Urine	E
Coffee	E
Cola	E
Ketchup	G
Mustard	G
Red Wine	E

KEY
E = Excellent
G = Good
F = Fair
NR = Not Recommended
* = Stain is only defect

SURFACE PREPARATION

Concrete and coated concrete surfaces must be sound, clean, dry, and free of all contaminants — including loose coatings, dirt, dust, grease, oil, silicone, curing compounds, and any material that may negatively affect adhesion. Concrete must have a minimum surface tensile strength of 300 PSI per ASTM D-4541.

MOISTURE VAPOR BARRIER

A suitable moisture barrier must be in place for concrete slabs on-grade. Seasonal fluctuations in ground moisture can drive excessive moisture vapor transmission (MVT) regardless of pre-application readings. MVT must not exceed 3 lbs. per 1,000 sq. ft. per 24 hours (ASTM F1869). Slab PH must not exceed 75% (ASTM F2170). Where MVT exceeds these thresholds, consult a Maverick

SURFACE PREPARATION (CONTINUED)

PREVIOUSLY COATED SURFACES

Clean the surface to prevent spreading contaminants into the area being prepared. Thoroughly grind with 30-grit metal diamonds to completely remove any non-epoxy grouts or topcoats and to establish the surface profile required for system adhesion.

SAFETY & TECHNICAL

Refer to the Safety Data Sheet (SDS) before use. Safety precautions must be strictly followed during storage, handling, and application. Personal Protective Equipment (PPE) must be worn at all times, including safety glasses with side shields and high-quality nitrile gloves. Additional PPE may be required based on site conditions. For complete safety and technical data, visit **maverickperformancesolutions.com**.

TEMPERATURE

CONDITION	°F	°C
Air Temperature	60° – 85°F	16° – 29°C
Surface Temperature	60° – 85°F	16° – 29°C
Material Temperature	60° – 85°F	16° – 29°C

*Higher temperatures and humidity will shorten pot life and working time.

SET-UP & MIXING AREA

Position the mixing area as close to the project area as possible. Cover the mix area with plastic, a tarp, or cardboard and securely tape to the floor. Stage all application tools, PPE, and clean-up supplies in the mixing area before beginning the installation.

TAPE AND TERMINATION POINTS

Apply masking tape to all perimeter areas where the coating system will terminate. Sawcut and key-in all termination points around drains, dock plates, and high-traffic impact zones (see Maverick Drawings / Architectural Details).

PATCHING

Fill cracks, holes, and eroded or spalled areas with MavPatch Epoxy or a Maverick 100% solids epoxy thickened with fumed silica. Scrape patches flush with the surface. After priming, inspect for additional patching before proceeding to the topcoat.

JOINTS

Honor all isolation, expansion, and movable joints by installing the appropriate joint filler after the coating system is complete. Contraction (sawcut) joints may be coated over; however, shrinkage or slab movement may reflect through the system over time. See Maverick Drawings / Architectural Details for joint treatment details.

APPLICATION EQUIPMENT

Assemble all required equipment before beginning. Equipment includes (but is not limited to):

- Drill and Jiffy® type mixing blade
- High quality non-shed 3/8" nap roller covers
- Edge rollers & chip brushes
- Painters' tape
- Duct tape
- High quality flat & notched EPDM squeegees
- Flat metal spring blade squeegee
- Spiked shoes
- Roller pans
- Measuring and mixing containers

APPLICATION PROCEDURE

MAVPRIME EP — PRIMER STEP

Mix ratio: 2 Parts Part-A to 1 Part Part-B by volume.

1. Pre-mix Part-A at low speed for 1 minute. If pigmenting the primer, add one 16-oz. MavTint to Part-A and pre-mix for 1 minute

APPLICATION PROCEDURE CONTINUED

MAVCOAT CRE — TOPCOAT APPLICATION

Mix ratio: 2 Parts Part-A to 1 Part Part-B by volume. MavCoat CRE is packaged in a clear base and is pigmented on-site with MavTints.

1. Pre-mix Part-A at low speed for 1 minute. If pigmenting, add one 16-oz. MavTint pack per 3 mixed gallons to Part-A (use two packs for white, light gray, or safety yellow for full hide) and pre-mix for 1 minute.
2. Add Part-B and mix for a minimum of 2 minutes using a mechanical jiffy-type mixer at low speed, scraping the sides and bottom of the pail to ensure complete incorporation. Any unmixed material on the pail walls will not cure. Do not mix more than can be applied within the 25-minute pot life.
3. Immediately pour mixed MavCoat CRE onto the floor in a long bead approximately 8–12 inches wide. Move quickly — material left in the pail generates heat and shortens working time.
4. Wearing spiked shoes, spread evenly at 8–16 mils using a roller or squeegee and back-roll. Do not over-roll; excessive rolling can introduce small air bubbles. Back-roll lightly only if necessary.
5. When applying as a non-skid coating, broadcast clean, dry silica sand or aluminum oxide aggregate into the wet resin immediately after spreading. A full broadcast to refusal produces the best-looking and most durable finish. Remove all excess aggregate and scrape the floor before applying a second coat.
6. After the first coat is tack-free (approximately 10 hours at 70°F) and before the 24-hour recoat window expires, apply a second coat of MavCoat CRE following the same procedure. Do not delay — if the first coat exceeds 24 hours, lightly sand and clean the surface before applying the second coat.

CLEAN UP & DISPOSAL

Clean all mixing and application equipment immediately after use with acetone or xylene. Do not use alcohol. Follow solvent manufacturer's safety instructions. Dispose of all materials in accordance with local, state, and federal regulations.

LIMITATIONS

⚠ MavCoat CRE is not aliphatic and may yellow over time without a UV-stable topcoat. Not designed for exterior use or constant-immersion applications. Floors should slope to drain to prevent standing liquid or chemical pooling. Confirm performance in specific chemical environments prior to full application. Do not apply at temperatures or film thicknesses outside published specifications. Do not delay pouring mixed material onto the floor. Do not make partial mixes. Do not invert pails to drain. Do not apply over loose or unsound concrete, asphalt or bituminous substrates, glazed tile, magnesite, metal, polyester coatings, or elastomeric membranes. Moving joints and shrinkage cracks may telegraph through the system. Joints designed to move must be honored. Tire marking may occur under sustained heavy vehicle traffic.

SHELF LIFE & 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 defects in material that affect its performance for a period of one year from date of purchase. Maverick will replace, at no charge, the quantity of coating determined to have failed to perform, as the sole and exclusive remedy for any breach of this warranty. Proof of purchase is required. Labor costs for application of any replacement product are excluded. Warranty is void if Maverick products are mixed with or used in conjunction with non-Maverick materials. Warranty is nontransferable.

TECHNICAL ASSISTANCE

ⓘ Information is available by calling Maverick **313-889-2526** or emailing **sales@mavtechsol.com**.