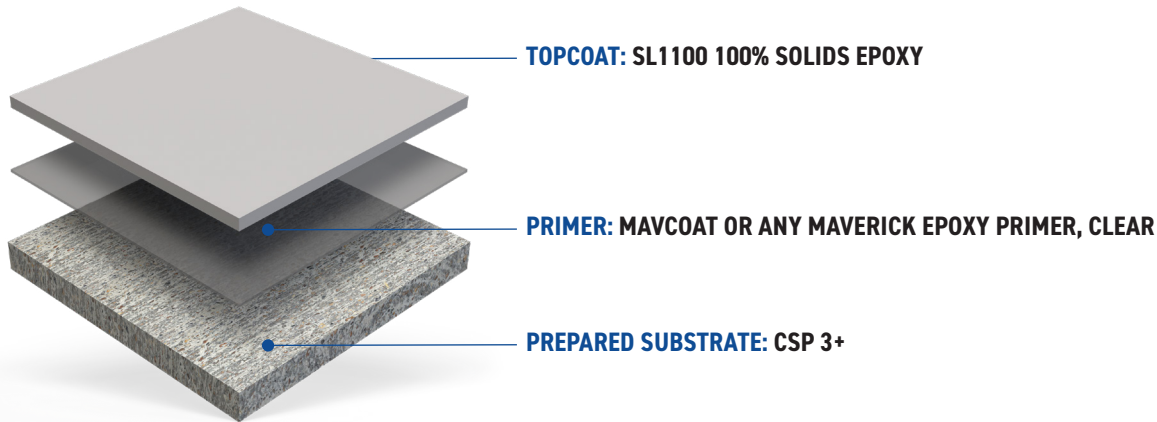




MAVCOAT-HB EPOXY SYSTEM GUIDE



NOTE: PLEASE READ AND REVIEW THESE INSTRUCTIONS PRIOR TO INSTALLATION OF THE COATING SYSTEM. OTHER **MAVERICK** PRODUCTS MAY BE USED AS ALTERNATIVE PARTS OF THIS SYSTEM. CONTACT **MAVERICK** TECHNICAL SUPPORT AT INFO@MAVERICK.COM OR 313-889-2526.

DESCRIPTION

MAVCOAT HB EPOXY is a high-gloss and durable epoxy system designed to withstand abusive environments. This 2-layer system restores eroded floors to a high-gloss finish and can be top-coated with high-wear and chemical resistant topcoats for extra levels of protection.

PRODUCT INFORMATION

PRODUCT NAME	SIZE	COLOR/FINISH
Mavcoat 100% Solids Epoxy Primer	1.5-Gallon Kit	Clear / Gloss
SL1100 100% Solids Self-Leveling Epoxy, Part-A Part-A	2-Gallon	Clear / Gloss
SL1100 100% Solids Self-Leveling Epoxy, Part-B Part-B	1-Gallon	Clear / Gloss
Mavtint Packs Floor Coating Pigment Packs	16-Ounce	7 Available Colors

1 pint Mavtint can be used to pigment 1.5 gallon mixes of Mavcoat and 3 gallon mixes of SL1100 in colors including: Haze Gray, Light Gray, Deck Gray, Sandstone, White, Black, & Tile Red (2 pints White and Sandstone can be used to improve hide in 3 gallon mixes of SL1100).

COVERAGE RATES

PRODUCT NAME	WET FILM THICKNESS	DRY FILM THICKNESS	COVERAGE RATE
Mavcoat 100% Solids Epoxy Primer	3 - 8 mils	3 - 8 mils	200 - 533 sq. ft./gal.
SL1100 100% Solids Self-Leveling Epoxy	10 - 30 mils	10 - 30 mils	53 - 160 sq. ft./gal.

PHYSICAL PROPERTIES

TEST NAME	TEST METHOD	RESULT
Adhesion to Concrete	ASTM D7234	> 400 PSI (100% Concrete Failure)
Coefficient of Friction (Wet DCOF)	ANSI A326.3	.55
Compressive Strength	ASTM D695	11,600 psi
Elongation	ASTM D2370	5 - 10%
Flammability		Self-Extinguishing on Concrete
Flexural Strength	ASTMD790	12,800 psi
Gloss @ 60 Angle	ASTM D523	96
Hardness, Shore D (24 hours, 5 days)	ASTM D2040	75
Taber Abrasion (CS-17 Wheel, 1000 mg. Load, 1000 Cycles)	ASTM D4060	50 mg Loss
Tensile Strength	ASTM D638	9,600 psi
VOC	EPA Method 24	100%

CHEMICAL RESISTANCE

CHEMICAL	RESULTS	CHEMICAL	RESULTS	CHEMICAL	RESULTS
10% Acetic Acid	G	Methyl Ethyl Ketone	G	Betadine	G*
Vinegar	G	Xylene	F	Bleach	E
10% Citric Acid	G	Ethylene Glycol	G	Urine	E
10% Hydrochloric Acid	G	Isopropyl Alcohol	F	Coffee	E
30% Hydrochloric Acid (muriatic)	G	Mineral Spirits	E	Cola	E
10% Nitric Acid	G*	Brake Fluid	F	Ketchup	G
50% Phosphoric Acid	F	Transmission Fluid	E	Mustard	G
10% Sulfuric Acid	G	Motor Oil	E	Red Wine	E
37% Sulfuric Acid	F	50:1 Gas/Oil Mixture	E		
70% Sulfuric Acid	F	E85 Gasoline	E		
20% Ammonium Nitrate	E	E95 Gasoline	E		
20% Sodium Chloride	E	Unleaded Gasoline	G		
50% Sodium Hydroxide	E	Skydrol	E		

*Stain is only defect.

KEY	
E = Excellent	G = Good
F = Fair	NR = Not Recommend

SURFACE PREPARATION

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

MOISTURE VAPOR BARRIER: A suitable moisture barrier must be in place for concrete slabs on-grade. If a moisture barrier is not in place, seasonal variations in ground moisture can cause excessive moisture vapor transmission (MVT) regardless of results measured prior to coating application. MVT rate must not exceed three pounds per 1,000 square feet per 24 hours, as directed by ASTM F1869. The relative humidity (RH) of the slab must not exceed 75%, as directed by ASTM F2170. If there is a moisture situation in excess of the above rate, the use of **Maverick** MVB Moisture Vapor Barrier Primer may be required. Consult a **Maverick** Representative for details and application procedures.

NEW/BARE CONCRETE: Diamond grind or shotblast to a CSP-3 or greater surface profile. Refer to SSPC-SP13 / NACE 6 or ICRI Technical Guideline No. 310.2. New concrete must be cured a minimum of 28 days and should meet moisture vapor transmission (MVT) and relative humidity (RH) thresholds as described above.

SURFACE PREPARATION (CONTINUED)

PREVIOUSLY COATED SURFACES: Clean surface to prevent any contaminants from being spread/redistributed to a greater area being prepared. Thoroughly grind the surface with 30 grit metal diamonds to completely remove any grout or topcoats that are not epoxy based and provide proper surface profile required for adhesion of the system.

SAFETY & TECHNICAL

Refer to the SDS sheet before use. Safety precautions must be strictly followed during storage, handling, and use. Personal Protective Equipment (PPE) should be worn at all times. PPE will include (but is not limited to): Safety glasses, side shields and high-quality nitrile gloves. To acquire additional information or technical and safety data, please visit: www.mavtechsol.com.

TEMPERATURE

Air	60° - 85°F	16° - 29°C
Surface	60° - 85°F	16° - 29°C
Material	60° - 85°F	16° - 29°C

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

SET-UP & MIXING AREA

Place the mixing area as close to the project area as possible. Cover mix area with plastic, a tarp, or cardboard and securely tape to the floor. Assemble all necessary application tools, safety supplies & PPE, and clean-up supplies and place in the mixing area prior to starting the application process.

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 points (see **Maverick** Drawings/Architectural Details).

PATCHING

Cracks, holes, eroded & spalled areas of the floor should be patched with **Maverick Mavpatch Epoxy** Crack Filler or a **Maverick** 100% Solids Epoxy thickened with fumed silica. For best results, scrape patch material flush with the surface. After priming, check to see if additional patching is required.

JOINTS

Honor all isolation, expansion, and movable joints with the appropriate joint material after the coating system is installed. Contraction (sawcut) joints may be filled and coated over; However, the coating system may crack over time if the slab experiences excessive shrinkage or movement (see **Maverick** Drawings/Architectural Details).

APPLICATION EQUIPMENT

Assemble all required application equipment. Equipment will include (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

MAVCOAT PRIMER:

Mavcoat Primer mix ratio is 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 ounce **Maverick Mavtint** to the Part-A and pre-mix for 1 minute.
2. Add Part-B and mix for three minutes until uniform. Do not mix more material than can be applied in 10 - 15 minutes (material will stiffen or tackup).
3. Immediately pour mixed **Mavcoat Primer** on the floor in a long bead approximately 8 - 12 inches wide.
4. Wearing spiked shoes, spread evenly at 3 - 8 mils by pushing a flat squeegee or metal spring blade along the bead. Overlap previous passes in order to ensure concrete pinholes are filled. A tight, thin coat of primer with no back-roll is the best way to minimize outgassing bubbles.
5. If back-rolling, use a non-shed 3/8" roller and back-roll the primer evenly across the squeegee passes to minimize application lines and leave a consistent film thickness.
6. After the **Mavcoat Primer** has dried (see **Mavcoat** data sheet for drying schedule), apply the **SL1100** 100% Solid Epoxy and **Mavtint** (if desired) If **SL1100** has not been applied to **Mavcoat** within 24 hrs, degloss the finish of the primer using sandpaper, diamonds or Diamabrush before coating.

APPLICATION PROCEDURE CONTINUED

SL1100 100% SOLIDS SELF LEVELING EPOXY:

SL1100 100% Solids Epoxy mix ratio is 2 Parts Part-A to 1 Part Part-B by volume. SL1100 is packaged in a clear base that can be pigmented on-site with **Maverick Mavtints**.

1. Pre-mix Part-A at low speed for 1 minute. If pigmenting the epoxy, add one pint **Mavtint** to two gallons Part-A (for a 3 gallon mix), and pre-mix for 1 minute. Add 1-gallon Part-B and mix for three minutes until uniform. Do not mix more material than can be applied in 10-15 minutes (material will stiffen or tack-up).
2. Immediately pour mixed **SL1100** on the floor in a long bead approximately 8 – 12 inches wide.
Do not scrape sides or leave pail overturned to drain.
3. Wearing spiked shoes, spread evenly at 8 – 12 mils by pushing a 1/8" notched squeegee along the bead. Overlap previous passes in order to ensure consistent coverage.
4. Push the squeegee with a slight angle to plow extra material to the side, moving it down the floor.
5. Using a non-shed 3/8" roller, back-roll the **SL1100** evenly across the squeegee passes to minimize application lines and leave a consistent film thickness. **Do not back-roll material after it begins to get sticky. The epoxy will not level and colored epoxy may turn a different shade.**

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.

LIMITATIONS

⚠ System is not aliphatic and may yellow over time. Do not apply at temperatures or thicknesses not recommended. Do not delay in pouring mixed material onto the floor. Do not make partial mixes. Do not invert epoxy pails to drain. Do not apply over loose or unsound concrete, asphalt or bitumen substrates, glazed tile or nonporous brick and tile, magnesite, copper, metal, polyesters, or elastomeric membranes. Moving joints and shrinkage cracks may reflect through system. Joints that are designed to move may reflect through the finished flooring system if they are not honored. Tire marking may occur.

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 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.

TECHNICAL ASSISTANCE



Information is available by calling **Maverick**
313-889-2526



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313-889-2526

SYSTEM GUIDE: 03/24/2026

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