



# MAVCOAT SL1100

## PRODUCT DESCRIPTION

**MavCoat SL1100** is a 100% solids, zero VOC, blush-resistant, self-leveling epoxy. This basecoat is designed to be used over sealed concrete where high-build and durability are needed. This workhorse epoxy has toughness and good chemical resistance. Use with **Decorative Chip**, quartz, or **Metallic Additive** to create systems that are attractive and durable, or broadcast non-skid aggregates to produce a slip-resistant surface.

**MavCoat SL1100 SLOW CURE** has extended working time. It is an excellent choice for applicators with less experience or decorative coating installations like metallic that may require more work time.

**MavCoat SL1100** is an epoxy with reduced work and cure times for experienced installers with large crews and jobs that require shorter time between coats.

## FEATURES & BENEFITS

- Self Leveling
- Seamless
- Solvent Free
- 100% Solids
- Chemical Resistant
- Durable
- Excellent Adhesion Properties
- Impact Resistant
- Safe For Incidental Food Contact
- User-Friendly Work Time

## RECOMMENDED USES

- Use as a basecoat over **Mavcoat Epoxy Primer HS** for all **Maverick** systems as a build layer.
- Combine with **Metallic Additive** or broadcast into with **Decorative Chip**, quartz, or silica sand.

## PRODUCT INFORMATION

PRODUCT NAME	SIZE	COLOR/FINISH	ITEM NUMBER
MavCoat SL1100 100% Solids Self-Leveling Epoxy, Base	2-Gallons	Clear / Gloss	40004156
MavCoat SL1100 Slow Activator	1-Gallon	Clear / Gloss	40008383
MavCoat SL1100 100% Solids Self-Leveling Epoxy, Standard Activator	1-Gallon	Clear / Gloss	40004155
MavCoat SL1100 Fast Cure Activator	1-Gallon	Clear / Gloss	40009076

*3-gallons MavCoat SL1100 clear can be pigmented with 1-pint Maverick U-Tint in the following colors: Haze Gray, Light Gray, Deck Gray, Sandstone, White, Black, & Tile Red (2 pints White and Sandstone can be used to improve hide).*

## TECHNICAL DATA

PHYSICAL DATA	
Components	2 (Base & Activator)
Color	Clear
Finish	High Gloss
Mix Ratio (by volume)	2 Base: 1 Activator
Curing Mechanism	Chemical reaction between components
Solids by Volume	100%
Solids by Weight	100%
Mixed Viscosity	900 - 1000 cP
VOC (EPA Method 24)	0 g/L

THEORETICAL COVERAGE		
Wet Mills (microns)	10 (254) – min.	30 (762) – max.
Coverage sq. ft./gal. (m <sup>2</sup> /L)	160 (3.9) – min.	53 (1.3) – max.

CURE TIMES @ 72°F (25°C) 50% RH *			
	SLOW	STANDARD	FAST
Work Time	35 – 40 minutes	20 – 25 minutes	12 – 17 minutes
Tack Free	7 hours	5.5 hours	3 hours
Light Foot Traffic	16 hours	10 hours	6 hours
Heavy Traffic	2 days	2 days	2 days
Full Cure	5 days	5 days	5 days
Minimum Recoat	14 hours	8 hours	5 hours
Maximum Recoat	24 hours **	24 hours **	24 hours **

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

*\*\*Apply another coat of epoxy or a topcoat within 24 hours of the initial coat of MavCoat SL1100. If the re-coat window is missed, the coating system will need to be sanded.*

## PHYSICAL PERFORMANCE PROPERTIES

PHYSICAL PROPERTIES	TEST METHOD	RESULTS
Adhesion	ASTM D7234	> 400 psi (100% Concrete Failure)
Coefficient of Friction (Wet DCOF)	ANSI A326.3	> .55
Compressive Strength	ASTM D695	11,600 psi
Flammability	–	Self-extinguishing over concrete
Flexural Strength	ASTM D790	12,800 psi
Gloss @ 60° Angle	ASTM D523	> 90
Hardness, Shore D (24 hours)	ASTM D2240	75
Taber Abrasion (CS17 Wheel, 1000 g Load, 1000 Cycles)	ASTM D4060	50 mg loss
Tensile Strength	ASTM D638	9,600 psi

## 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	*Stain is only defect.	
70% Sulfuric Acid	F	E85 Gasoline	E	KEY	
20% Ammonium Nitrate	E	E95 Gasoline	E	E = Excellent	G = Good
20% Sodium Chloride	E	Unleaded Gasoline	G	F = Fair	NR = Not Recommend
50% Sodium Hydroxide	E	Skydrol	E		

## 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.

### 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, depending on total thickness of system. Refer to SSPC-SP13/NACE 6 or ICRI Technical Guideline No. 310.2. Prime concrete with **Mavcoat Epoxy Primer HS** to minimize outgassing bubbles.

New concrete must be cured a minimum of 28 days and should meet moisture vapor transmission (MVT) and relative humidity (RH) thresholds as described in Surface Preparation section.

### 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 AND 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 with side shields and high-quality nitrile gloves. To acquire additional information or technical and safety data, please visit: <https://mavtechsol.com>.

## TEMPERATURE

Air	35° – 85°F	2° – 29°C
Surface	35° – 85°F	2° – 29°C
Material	60° – 85°F	16° – 29°C

*Higher temperatures will shorten pot-life and working time.  
Floor temperature must be at least 5 degrees over the current dew point.  
MavCoat SL1100 epoxy used below 60°F must be the Fast Cure version.*

## APPLICATION EQUIPMENT

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

1. Drill and Jiffy® type mixing blade
2. Spiked Shoes
3. Flat metal spring blade or flat EPDM squeegee.
4. 3/8" shed-resistant woven roller covers with phenolic core (tape to remove loose roller hair).
5. Edge rollers, chip brushes
6. Painter's tape, duct tape, measuring and mixing containers

## APPLICATION PROCEDURE

**MavCoat SL1100** 100% Solids Epoxy mix ratio is 2 Parts Base to 1 part Activator by volume. We recommend installing **MavCoat SL1100** over a **Maverick** primer to reduce outgassing on uncoated concrete floors.

1. Pre-mix Base at low speed for 1 minute. If pigmenting, add U-Tint into the Base. 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 tack-up.)
2. Immediately pour all mixed **MavCoat SL1100** on the floor in a long bead approximately 8 – 12 inches wide. Do not scrape sides or leave pail overturned to drain.  
Do not attempt to roll material out of a bucket or roller pan.
3. Wearing spiked shoes, spread evenly at 10 – 30 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 **MavCoat 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.

## 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.

## LIMITATIONS

- ⚠ Do not apply at a temperature or thickness not recommended.
- ⚠ Do not delay in pouring mixed material onto the floor.
- ⚠ 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 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.

## TECHNICAL ASSISTANCE

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

## 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.