



# MAGMAFLO™ EPOXY

## TECHNICAL DATA SHEET

PRODUCT ID: MF-1001LVA, MF-1002LVB

### PRODUCT DESCRIPTION

MagmaFlo™ Epoxy is formulated specifically for use in metallic flooring applications. It is a low viscosity, 100% solids, commercial grade, clear epoxy that allows MagmaFlo Metallic Pigments to creep and flow into lava like patterns. The finished result reveals a metallic sheen that shifts as the light changes. MagmaFlo metallic floor systems are finished with one of SLABHARD's two component Polyaspartics or Polyurethanes. Both finish coat options are abrasion resistant, chemical and stain resistant, high solids, high performance and UV stable. MagmaFlo Epoxy is VOC compliant in all states and provinces in North America.

### COLOR

See DPF Metallic Pigment Packs.

### FEATURES

- Complies with USDA, FDA, Food Safety Modernization Act.
- With the Correct Aggregate Meets Slip Resistance (ADA) for flat and incline surfaces.
- LEED® and Green Seal® requirements.
- VOC and EPA Compliant all states and provinces in North America and low odor during installation. Cures to an inert finish.
- Strong and Tough Floor.
- Designed for new floors and for resurfacing old floors.

### LIMITATIONS

- This product is best suited for applications in temperatures between 60°F to 90°F (16°C to 32°C) and when the humidity is below 85%.
- Deep scratches can appear white.
- Higher temperatures will result in shortened working time and decrease drying time.

- Color may vary due to batch to batch variation, always "box" different batches to avoid color differences.

### USES

#### Top Coat

- Automotive Show Room and Repair Floors
- Garages Floors
- Laboratories and Research Floors
- Manufacturing and Warehouse Floors
- Pharmaceutical Floors
- Residential Interiors Floors
- Retail Store Floors
- Schools and Universities
- Countertops

### COVERAGE RATE PER GALLON

- Coating: 32 to 100 sq. ft. (4.6 to 9.6 sq. m)  
WFT 50 to 16 mils (0.41 to 0.81 mm)

### CHECK CONCRETE MOISTURE

Concrete must be dry before application of this floor coating material. Concrete moisture tests are required, either ASTM F1869 (calcium chloride) or ASTM F2170 (in situ RH probe).

### TEMPERATURE AND HUMIDITY

Floor and material temperature must be at or above the published Technical Data Sheet requirements. Relative Humidity must be 5°F (3°F) below the dew point. Do not apply if humidity is at or above 85%.

### SURFACE PREPARATION

Surface preparation in accordance with: ICRI Guideline No. 310.2R Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings, Polymer Overlays, and Concrete Repair. The pH of the concrete substrate should be at 9 or above. All bond-breaking material must be removed.

## APPLICATION EQUIPMENT

Depending on system applied: Disposable 3" brush for cutting in, variable low speed drill (450 rpm) with Jiffy® type impeller mixing paddle, 3/8 inch nap non-shedding phenolic core roller and V-notched rubber squeegee for spreading neat polyaspartic.

## MIXING

For ease of mixing and placement, the temperature of the "A" and "B" components should be between 70°F to 80°F (20°C to 26°C). Pre-mix the "A" and "B" component to ensure all raw material and pigments are dispersed uniformly.

## APPLICATION

After mixing all contents as instructed, immediately pour all liquid material on to the properly prepared concrete substrate or next epoxy lift in ribbons and squeegee the material out evenly. Check for desired wet film thickness with a WFT Gauge. Roll and cross rolling of material is critical.

## SKID RESISTANCE

Skid-Resistance – Field (in situ) Wet Dynamic Coefficient of Friction (DCOF), ANSI A326.3.

## CLEAN-UP

Clean-up mixing station, tools and equipment as required. Use acetone, a VOC exempt solvent, for cleaning up. Observe all legal, and health and safety precautions when handling or storing solvents and materials, particularly in confined spaces. Make sure the working areas are well ventilated at all times during placement and curing time.

PHYSICAL PROPERTIES @ 79°F (26°C) 7-DAY CURE (UNLESS STATED OTHERWISE)	
VOC (Volatile Organic compounds), (ASTM D3960)	<5 gr./lt.
Viscosity, Mixed	1000 cps
Solids Content, by Volume (Clear Gloss)	100.0%
Pot Life, 1-gallon (3.79 liters) mass, Pot Life is Reduced by Increases in Mass & Temperature	15 Minutes
Mix Ratio, by Volume	2:1
Minimum / Maximum Application Surface Temperature	50°F to 100°F (10°C to 38°C)
Dry to Touch	6 Hours
Light Traffic	24 Hour

Vehicle Traffic	4 Days
Full Chemical Resistance	7 Days
Shelf Life (shipped and stored) at 40°F to 100°F (4.4°C to 38°C)	1 Years
Packaging 3 gal and 15 gal (11.4 and 56.8 lts.)	

MECHANICAL PROPERTIES @ 77°F (26°C) 7-DAY CURE	
<b>Surface Preparation ICRI Guideline No. 310.2R – Concrete Surface Profile (CSP 2 and above) Depending on System to be Installed and Condition of Concrete.</b>	
Gloss Index, 60 Degrees Clear Gloss, ASTM D523	90
Adhesion, ASTM D7234, Concrete Failure	>400 psi
Compressive Strength, ASTM D695	14,000 psi
Tensile Strength, ASTM D638	4,500 psi
Hardness (Shore D), ASTM D2240	75-80
Abrasion Resistance, ASTM D4060 500 cycles, Wheel No. CS17, 1000 gr. Load	0.01 gr.
Flammability, ASTM D635, Bonded to Concrete	Self-Extinguishing
Microbial (fungi) Resistance, ASTM G21	Pass #1
Wet Dynamic Coefficient of Friction, ASNI 326.3 Depends on texture of system selected, ranging from smooth or aggressive. Measured with BOT 3000E equipment.	>0.45 (inclines) >0.42 (flat)
Moisture Vapor Emission Rate, ASTM F1869*	3 lbs.
Relative Humidity ASTM F2170	80 rh

\*If moisture or relative humidity exceeds the limits consult a Desert Polymer Flooring representative.

## WARRANTY AND DISCLAIMER

Please read all information in the Safety Guidelines, Technical Data Sheets, Guide Specifications and Safety Data Sheets (SDS) before applying material. Desert Polymer Flooring Products are for "Professional Use Only" and preferably applied by professionals who have prior experience with the Desert Polymer Flooring Products or have undergone training in application of Desert Polymer Flooring Products. Published technical data and instructions are subject to change without notice. Contact your local Desert Polymer Flooring representative or visit our website for current technical data, instructions, and project specific recommendations.

## LIMITED WARRANTY

Desert Polymer Flooring warrants its products to be free of manufacturing defects and that they will meet Desert Polymer Flooring current published physical and chemical properties. Seller's sole responsibility shall be to replace that portion of the product which proves to be defective. There are no other warranties by Desert Polymer Flooring of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. Desert Polymer Flooring shall not be liable for damages of any sort, including remote or consequential damages resulting from any claimed breach of any warranty whether expressed or implied. Desert Polymer Flooring shall not be responsible for use of this product in a manner to infringe on any patent held by others. In addition, no warranty or guarantee is being issued with respect to appearance, color, fading, chalking, staining, shrinkage, peeling, normal wear and tear or improper application by the applicator. Damage caused by abuse, neglect and lack of proper maintenance, acts of nature and/or physical movement of the substrate or structural defects are also excluded from the limited warranty. Desert Polymer Flooring reserves the right to conduct performance tests on any material claimed to be defective prior to any repairs by owner, general contractor, or applicator.

## DISCLAIMER

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