

# K A U F M A N

PRODUCT  
INFORMATION

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## SurePoxy VLMLV

### Description

SurePoxy VLMLV is a two component, 100% solids, moisture-insensitive, epoxy resin system. The viscosity of VLMLV is thin, similar to lightweight oil. VLMLV is modified to provide non-shrink stress relief, for protection during changes in temperatures. VLMLV is moisture insensitive before, during and after cure. It can be applied to damp and dry surfaces. It may be used neat or with aggregates to formulate a mortar. It does not contain fillers or extender oil. VLMLV comes complete in one package, containing both components, so there is less chance of a mixing error.

### Uses

SurePoxy VLMLV is designed for both sealing porous concrete surfaces and providing stress-relieved patching and overlay systems. Because of its low viscosity, it is an excellent choice for pressure injection into structural concrete.

### Typical Properties- @ 75°F

Mixing Ratio	1:1 by volume
Color	A-lt. amber; B-dk. amber; Mixed-amber
Viscosity	400-600 cps
Shelf Life	1 year minimum
Pot life, neat 1 lb.	35-40 min.
Tack-free (thin film)	4 hours
Final Cure	3 days

### Ultimate Physical Characteristics

after cure at 75°F and 50% relative humidity

HDT	50°C
ASTM D-648	
Bond Strength	1,800 psi @ 14 days
ASTM C-882	
Compressive Strength	4,500 psi @ 3 day
7:1 mortar ASTM D-695	6,500 psi @ 7 days
Compressive	
Yield Strength	6,000 psi @ 7 days
Comp. modulus	85,000 psi @ 7 days
Tensile Strength	2,800 psi @ 7 days
& elongation	40-70% @ 7 days
ASTM D-638	

All values approximate-will vary with temperature and humidity.

### Specifications

ASTM C-881, Type III, Grade 1, Class C  
AASHTO M-235, Type III, Gr. 1, Cl. C  
AASHTO M-234

### Packaging

1.90 Liter	(.50 gal. unit)
7.57 Liter	(2 gal. unit)

### Coverage

1 gal. SurePoxy VLMLV applied as a thin coat sealer covers approximately 125 ft<sup>2</sup> on a smooth surface.

### VOC

0 grams/liter

### Directions

#### Surface Preparation

Concrete Surfaces should be clean and sound. It may be dry or clamp but free of standing water. Remove oil, wax, curing compound, laitance, and other foreign matter as per ASTM D-4258 and D4259. Water blasting followed by shot blasting is the preferred method of preparation. Also satisfactory are sandblasting or shot blasting individually. Acid etching according to ASTM D-4260 with Kaufman Products Concrete Floor Etch or 15-20% muriatic acid solution can be used as an alternative. Be sure to rinse thoroughly with clear water to remove all residues. The surface shall uniformly be roughened to a degree similar in appearance to coarse sand paper-aggregate may show. Steel - Sandblast to the appropriate finish.

Expansion/control joints, joint sealants, floor drains and floor termination joints require special attention. VLMLV will not usually adhere to sealant joints. Test first.

### Proportioning/Mixing

The volumetric ratio of SurePoxy VLMLV is 1:1 (A:B). To mix, proportion 1 parts A and 1 part B into a clean pail. Mix thoroughly for 3 minutes with paddle on low speed (400-600 rpm) drill until blend is a uniform color. Add approximately 7 parts by volume SurePoxy Aggregate to 1 part neat SurePoxy VLMLV to produce a mortar. Mix until uniform.

For professional use only. Not for sale to or use by the general public.

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## **Application**

Sealing porous surfaces - Apply neat over dry or damp slab using flat rubber squeegee. Allow sealer to penetrate, squeegee off excess while still liquid. One gal. neat SurePoxy VLMLV used as penetrating sealer, covers approximately 125 ft<sup>2</sup>. For skid resistance, broadcast SurePoxy Aggregate onto wet epoxy at the rate of .25 lbs./ft<sup>2</sup>.

Patch and overlay slabs - Prime substrate with neat SurePoxy VLMLV using brush, roller, or squeegee. Prepare mortar by adding approximately 5-7 parts SurePoxy Aggregate to 1 part SurePoxy VLMLV by volume. SurePoxy VLMLV mortar must be placed while prime coat is still tacky. Trowel into patches, screed or trowel over large areas. Finish with steel trowel.

To obtain an easy to clean finish, apply neat sealer coat of SurePoxy VLMLV when overlay has cured. One gallon of SurePoxy VLMLV, mixed with 5 gallons SurePoxy Aggregate yields approximately .5 ft<sup>3</sup> of epoxy mortar.

## **Precautions**

Do not thin SurePoxy VLMLV. Do not apply to surfaces below 60°F, unless checking with the factory first. Pot life may vary due to different temperatures. The contractor shall use the test method prescribed in ACI 503R to determine that the preparation produced a surface capable of providing tensile bond strength greater than 250 psi. Store this product 40-90°F. Do not apply mortar over existing expansion joints or moving cracks and/or construction joints. Read Material Safety Data before using.

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