

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 SurePoxy VLMLV is thin, similar to lightweight oil. SurePoxy VLMLV is modified to provide non-shrink stress relief, for protection during changes in temperatures. SurePoxy 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. SurePoxy 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	2:1 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 ASTM D-648	50°C
Bond Strength ASTM C-882	1,800 psi @ 14 days
Compressive Strength 7:1 mortar ASTM D-695	7,000 psi @ 1 day 7,500 psi @ 3 days
Compressive Yield Strength	6,000 psi @ 7 days
Comp. modulus	110,000 psi @ 7 days
Tensile Strength & elongation ASTM D-638	2,800 psi @ 7 days 40-90% @ 7 days

All values approximate-will vary with temperature and humidity.

Specifications

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

Packaging

3 gallon unit
15 gallon unit

Coverage

1 gallon of SurePoxy VLMLV applied as a thin coat sealer covers approximately 125 ft² on a smooth surface.

VOC

0 grams/liter

Directions

Surface Preparation

Concrete surfaces should be clean and sound. It may be dry or damp 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 residue. 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. SurePoxy VLMLV will not usually adhere to sealant joints. Test first.

Proportioning/Mixing

The volumetric ratio of SurePoxy VLMLV is 2:1 (A:B). To mix, proportion 2 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.

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. of neat SurePoxy VLMLV, used as penetrating sealer, covers approximately 125 ft². For skid resistance, broadcast SurePoxy Aggregate onto wet epoxy at the rate of 25 lbs./ ft².

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 of SurePoxy Aggregate yields approximately .5 ft² of epoxy mortar.

Precautions

Do not thin SurePoxy VLMLV. 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 Safety Data Sheet before using.* Please refer to the *General Epoxy Instructions* for complete details on proper application during cold and hot weather.

Technical Information

Test results were achieved under laboratory conditions. Statistical variations will occur based upon mixing methods, temperature & humidity, test methodology, site conditions, curing conditions, application methods, and equipment.

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