

KAUFMAN

PRODUCT
INFORMATION

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SurePox LMLV

Description

SurePox LMLV is a two component, 100% solids, moisture-insensitive, epoxy resin system. The viscosity of SurePox LMLV is thin, similar to lightweight oil. SurePox LMLV is modified to provide non-shrink stress relief, for protection during changes in temperatures. SurePox LMLV 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. SurePox LMLV comes complete in one package, containing both components, so there is less chance of a mixing error.

Uses

Use neat to seal and fill cracks, as a concrete bonding compound or a wear resistant seal coat. Special aggregates can be added to produce a mortar to patch and repair concrete. 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- Dk. Amber
Viscosity	400-500 cps.
Shelf Life	1 year minimum
Pot life, neat 1 lb.	30-35 min.
Tack-free (thin film)	6 hours
Final Cure	7 days

Ultimate Physical Characteristics

after cure at 75 °F and 50% relative humidity

HDT ASTM D-648	50 °C
Bond Strength	1,600 psi. @ 7 days
ASTM C-882	
Shore D Hardness	70
Compressive Strength	
5:1 mortar ASTM D-695	5,200 psi. @ 1 day 7,600 psi. @ 7 days

Comp. Yield strength	6,000 psi. @ 7 days
Comp. modulus	200,000 psi. @ 7 days
Tensile Strength	3,400 psi. @ 7 days
& elongation	5-10% psi. @ 7 days
ASTM D-638	
Flexural modulus	2450 psi. @ 7 days

All values approximate-will vary with temperature and humidity.

Specifications

ASTM C-881, Type I and II, Grade 1, Class C
AASHTO M-235, Types I and II, Grade 1, Class C
AASHTO M-234
VA EP-5-LV
USDA OK

Packaging

16.5 oz. cartridge (6 per case)
3 gallon unit
15 gallon unit

Coverage

1 gallon of SurePox LMLV covers approximately 125 ft² on a smooth surface.

VOC

0 grams/liter

Storage Conditions

Store dry at 40-95 °F. Condition to 65-85 °F before using.

Directions

Surface Preparation Concrete - Surface must be clean and sound. It may be dry or damp but free of standing water. Remove oil, wax, curing compound, and other foreign matter as per ASTM D-4258. Waterblasting followed by shot blasting according to ASTM D-4259 is the preferred method of properly preparing the floor and removing laitance. 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 clean water to remove all residues. The surface shall uniformly be roughened to a degree similar in appearance to coarse sandpaper - aggregate may show. Steel - Sandblast to appropriate finish.

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

Proportioning/Mixing

The volumetric ratio of LMLV 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 SurePox Aggregate to 1 part neat SurePox LMLV 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 SurePox LMLV, used as penetrating sealer, covers approximately 125 ft². For skid resistance, broadcast SurePox Aggregate onto wet epoxy at the rate of .25 lbs. per ft².

Patch and overlay slabs - Prime substrate with neat SurePox LMLV using brush, roller, or squeegee. Prepare mortar by adding approximately 5-7 parts SurePox Aggregate to 1 part SurePox LMLV by volume. SurePox LMLV 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 SurePox LMLV when overlay has cured. One gallon SurePox LMLV, mixed with 5 gallons SurePox Aggregate yields approximately .5 ft³ of epoxy mortar.

Precautions

Do not thin SurePox LMLV. 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.

The NTSB has stated that epoxy adhesive products are approved for short term loads only and should not be used in sustained tensile load adhesive anchoring applications where adhesive failure could result in a public safety risk. Consult a design professional prior to use.

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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