

KAUFMAN

PRODUCT
INFORMATION

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SurePox MLV EPL

Description

SurePox MMLV EPL is a two component, 100% solids, moisture-insensitive, low-modulus and low-viscosity epoxy resin system with an extended pot life. The viscosity of SurePox MMLV EPL is thin, similar to lightweight oil. Additionally, SurePox MMLV EPL is modified to provide non-shrink stress relief, for protection during changes in temperatures. SurePox MMLV EPL is moisture-insensitive before, during and after cure. It can be applied to damp and dry surfaces and may be used neat or with aggregates to formulate a mortar.

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. Expansion and control joints in concrete or seal around floor drains and floor termination joints.

Due to its low viscosity, SurePox MMLV EPL is an excellent choice for pressure injection into concrete.

Typical Properties- @ 75°F

Mixing Ratio	2:1 by volume
Color	Dark Amber
Viscosity	200 cps.
Shelf Life	2 years
Pot life, 170 grams	110 minutes
Final Cure	7 days

Ultimate Physical Characteristics

after cure at 75°F and 50% relative humidity

HDT (ASTM D-648)	125°F
Bond Strength	1,600 psi. @ 7 days (ASTM C-882)
Compressive Strength	7,800 psi. @ 7 days
Tensile Strength	2,900 psi. @ 7 days
& elongation	8-15% psi. @ 7 days
ASTM D-638	
Effective Shrinkage	Passes (ASTM D-2566)
Thermal Compatibility	Passes (ASTM C-884)
Water Absorption	.04% (ASTM D-570)

All values approximate-will vary with temperature and humidity.

Packaging

3 gallon unit
15 gallon unit

Coverage

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

VOC

0 grams/liter

Storage Conditions

Store dry at 40-95°F. Condition to 65-90°F before using.

Directions

Concrete surface must be sound, clean, and free of all contaminants that could impair product adhesion, bond, or performance. Concrete should be a minimum of 28 days old or cured to the equivalent design strength prior to SurePox MMLV EPL installation. Prepare concrete in accordance with ICRI Guideline 310.2 CSP 3-5, taking care to avoid microcracking. Remove all loose or deteriorated concrete by chipping hammer, water jetting, or other mechanical means to achieve an open pore structure and sound concrete surface. Remove all cleaning media and debris by vacuum or blowing with high-pressure, oil-free air.

Proportioning/Mixing

The volumetric ratio of MMLV EPL 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.

Application

Sealing Porous Surfaces - Apply neat over dry or damp slab using a flat rubber squeegee at a rate of approximately 100 to 125 ft²/gallon. Allow SurePox MMLV EPL to penetrate and then squeegee off the excess while still liquid. For skid resistance, broadcast SurePox Aggregate onto wet epoxy at the rate of .25 to .50 lbs. per ft²/gallon.

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

LIMITED WARRANTY: We warrant our products to be of good quality and will replace material proved defective. Satisfactory results depend not only upon quality products, but also upon many factors beyond our control. Therefore, except for such replacement, there are no warranties which extend beyond the description on the face hereof, and Kaufman Products, Inc. makes no warranty or guarantee, expressed or implied, including warranties of fitness or merchantability, respecting its products, and Kaufman Products, Inc. shall have no other liability with respect hereto. The user shall determine the suitability of the product or the intended use and assume all risks and liability in connection thereto. Our salespeople, distributors, and their salespeople have no authority to change the printed recommendations concerning the use of our products.

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

To obtain an easy to clean finish, apply neat sealer coat of SurePoxy LMLV EPL when overlay has cured. One gallon SurePoxy LMLV EPL, mixed with 5 gallons SurePoxy Aggregate yields approximately .5 ft³ of epoxy mortar.

Precautions

Do not thin SurePoxy LMLV EPL. 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 it.* Please refer to the *General Epoxy Instructions* for complete details on proper application during cold and hot weather. SurePoxy LMLV EPL is an ASTM C-881 Class C epoxy resin system. Using it in temperatures below 60°F will affect the physical properties reported on the product data sheet. If using SurePoxy LMLV EPL in temperatures below 60°F is desired, please consult Kaufman Products Technical Service Department for usage guidance.

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.