

K A U F M A N

PRODUCT
INFORMATION

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SurePoxy LM

Description

SurePoxy LM is 100% solids, two component, moisture-insensitive, epoxy resin system. It is a low modulus, flexible binder that allows for variations in temperature and stress. SurePoxy LM is designed for application to damp or dry surfaces, free of standing water. It may be used neat or with aggregates to formulate a mortar.

Uses

LM is especially recommended as a stress-relieved binder in abrasion and chemical resistant mortars, on concrete or steel. It is also useful as a sealer for concrete parking decks and roadways, as well as for bonding skid resistant materials to hardened concrete.

Typical Properties- @ 75°F

Mixing Ratio	1 part A to 1 part B by vol.
Color	A-straw; B-amber; Mixed-light amber
Viscosity	1500-3000 cps.
Shelf Life	1 year minimum
Pot life, neat 1 lb.	30-40 min.
Tack-free (thin film)	5 hours

Final Cure 7 days

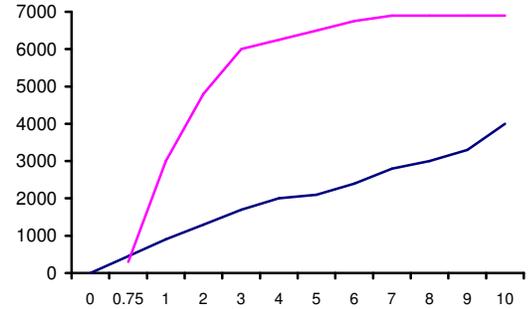
Ultimate Physical Characteristics

after cure at 75°F and 50% relative humidity

HDT ASTM D-648	50 °C
Bond Strength ASTM C-882	2,000 psi. @ 7days
Compressive Strength 5:1 mortar ASTM D-695	400 psi. @ 12 hours 3,400 psi. @ 1 day 6,000 psi. @ 3 days 7,000 psi. @ 7 days
Comp. Yld. Strength	8,500 psi. @ 7 days
Comp. modulus	200,000 psi. @ 7 days
Tensile Strength & elongation ASTM D-638	5,400 psi. @ 7 days 5-15% psi. @ 7 days
Flexural Strength	15,000 psi. @ 7 days
Flexural modulus	450 psi. @ 7 days
Shrinkage, ASTM C-883	.002 max

All values approximate-will vary with temperature and humidity.

Compressive Strength- Epoxy Mortar vs. Portland Cement



Specifications

ASTM C-881, Types I and II , Grade 2, Class C
AASHTO M-235, Types I and II, Grade 2, Class C
Virginia DOT, EP-5
USDA Approved

VOC

0 grams/Liter

Coverage Rate

80 ft²/gal. neat

Packaging

2 gallon unit
10 gallon unit

Storage Conditions

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

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. Waterblasting followed by shotblasting is the preferred method of preparation. Also satisfactory are sandblasting or shotblasting 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 appropriate finish.

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

Proportioning/Mixing

The volumetric ratio of LM is 1:1 (A: B). To mix, proportion 1 part A and 1 part B into a clean pail. Mix thoroughly for 3 minutes, with paddle on low speed (400 to 600 rpm), drill until blend is a uniform color. Up to 3 1/2 parts loose volume, SurePoxy Aggregate may be added to produce a mortar. Mix until uniform in consistency.

Application

Patching: Apply neat LM to properly prepared surface as a primer. Add approximately 3-4 parts by volume SurePoxy Aggregate to 1 part neat SurePoxy LM to produce a mortar. Apply this mortar while the primer is still tacky.

Skid- Resistant Overlay System: Apply neat prime coat of LMLV with brush, roller, or squeegee at approximately 80 square feet per gallon. Follow with LM application using a 3/16 in. notched rubber squeegee. Broadcast SurePoxy Aggregate into still wet LM for slip and skid resistance.

Precautions

Do not thin SurePoxy LM. Solvents will prevent proper cure. Not designed for use as an adhesive for fresh plastic Portland cement mortar or concrete, use SurePoxy HM. Pot lives 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. If stored below 45°F some lumps appear in the B component, but disappear after combining with component A and does not harm the product. LM forms a vapor barrier after cure. *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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