

K A U F M A N

PRODUCT
INFORMATION

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SurePoxy HMLV EPL

Description

SurePoxy HMLV EPL is a 100% solids, two component, moisture-tolerant extended pot life epoxy resin adhesive. This is a low viscosity high strength, multi-purpose product that can be applied neat or filled with aggregate. It does not contain fillers or non-reactive diluents. SurePoxy HMLV EPL comes complete in one package, containing both components, so there is less chance of a mixing error.

Uses

SurePoxy HMLV EPL is recommended for high pressure injection of cracks in structural concrete, masonry, wood, etc. Also gravity feed cracks in horizontal concrete and masonry. Excellent as a epoxy resin binder for epoxy mortar patching and grouting. Can be used to seal interior slabs and exterior above grade slabs from water, chlorides and mild chemical attack and also improve wearability.

Typical Properties @ 75°F and 50% RH

Uncured

Mixing Ratio	2:1 by volume
Color:	A-Clear; B-Amber Mixed-Dark Amber
Viscosity:	250-300 cps.
Shelf Life:	2 year minimum
Pot life, neat 1 pt.	85-95 minutes

Cured

HDT (ASTM D-648)	120 °F
Bond Strength (ASTM C-882)	1,100 psi. min.@ 3 Days 1,300 psi. min. @ 14 Days
Compressive Strength (5:1 mortar ASTM D-695)	1,500 psi. @ 1 day 9,500 psi. @ 3 days 11,500 psi. @ 7 days 13,000 psi. @ 28 days
Tensile Strength & elongation	7,100 psi. @ 7 days 4.7%
Water Absorption ASTM D-570	0.35% 24 hour immersion
Shrinkage (ASTM C-883)	.002 max

All values approximate—will vary with temperature and humidity.

Specifications

ASTM C-881, Types I, II, IV & V, Grade 1, Class C
AASHTO M-235, Types I, II, IV & V, Grade 1, Class C

VOC

0 grams/Liter

Packaging

2.83 Liters (3/4 gallon unit)]
11.36 Liters (3 gal. unit)
56.78 Liters (15 gallon unit)

Storage Conditions

Store dry at 40-95°F. Condition material 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, laitance, and other foreign matter as per ASTM D-4258 and D-4259. Waterblasting followed by shotblasting is the preferred method of preparation to provide a fractured aggregate profile. 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. Wash acid and loose mortar off with high-pressure water until slush is removed. Test with litmus paper to be sure acid is removed. Final rinse with 1% ammonia solution is beneficial. Steel - Sandblast to appropriate finish.

Proportioning/Mixing

The volumetric ratio of SurePoxy HMLV 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. If desired, add approximately 7 parts by volume SurePoxy Aggregate to 1 part neat SurePoxy HMLV EPL to produce a mortar. Mix thoroughly.

Application

Gravity Feed Cracks- Blow V notched crack clean with oil-free compressed air. Pour neat HMLV EPL EPL into V notched crack. Continue placement until completely filled. Seal underside of slab prior to filling if cracks reflect through.

Sealing surface- Spread HMLV EPL EPL over slab with flat rubber squeegee. Allow penetration. Remove excess to prevent surface film. Seal interior slabs and above grade exterior slabs only.

Epoxy Mortar- Use with SurePoxy Aggregate, added at the rate of 5-7 parts to 1 part of SurePoxy HMLV EPL by volume.

Precautions

Do not thin SurePoxy HMLV EPL. The contractor shall use the test method prescribed 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 settling and lumping appear. Read Material Safety Data 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.