

K A U F M A N

PRODUCT
INFORMATION

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SurePoxy HMLV Class B

Description

SurePoxy HMLV-Class B is a 100% solids, two component, moisture-insensitive, epoxy resin system. This is a low viscosity, multi-purpose product that can be applied neat or filled with aggregate in temperatures as low as 40 °F.

Uses

SurePoxy HMLV-Class B is recommended for use in temperatures of 32°F-65°F, as a low-viscosity, penetrating adhesive. SurePoxy HMLV-Class B is ideal for pressure injection high modulus grouting. When mixed with SurePoxy Aggregate, it provides an excellent setting bed for precast concrete, marble and granite or a repair mortar.

Specifications

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

VOC

0 grams/Liter

Packaging

2.84 Liter (.75 gal. unit)
11.36 Liter (3 gal. unit)
450 ML (16.5 oz./1.29 gal.) cartridges
(6 per carton)

Storage Conditions

Store dry at 40-95°F. Condition material to 40-60°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 laitance, and all 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 for final rinsing after acid. Steel - Sandblast to appropriate finish.

Proportioning/Mixing

The volumetric ratio of SurePoxy HMLV-Class B is 2:1. To mix, proportion 2 parts A and 1 part B into a clean pail. Mix thoroughly for 1 minute with paddle on low speed (400-600 rpm) drill until blend is a uniform color. Add up to approximately 7 parts by volume SurePoxy Aggregate to 1 part neat SurePoxy HMLV-Class B to produce a mortar. Mix thoroughly.

Typical Properties

Uncured	75°F	45°F
Mixing Ratio	2:1 by volume	2:1 by volume
Color	A-straw B-amber Mixed-amber	A-straw B-amber Mixed-amber
Viscosity	350 cps	1200-1700 cps
Shelf Life	2 year min.	2 year min.
Pot Life.		
neat 1 lb.	6 min.	15 min.
Tack-free (thin film)Neat	20 min.	90 min. approx.
Final Cure	3 day	7 days

Fully Cured

HDT (ASTM D-648)	50°C
Bond Strength (ASTM C-882)	1,885 psi min.
Compressive Strength	9,500 psi min.
5:1 mortar ASTM D-695	
Compressive Yield Strength	13,000 psi min.
Compressive Modulus	500,000 psi min.
Tensile Strength	7,000 psi min.
& elongation	1-5%
Flexural Strength	15,000 psi min.
Flexural Modulus	450,000 psi min.
Shrinkage, ASTM C-883	.002 max

All values approximate - will vary with temperature and humidity.

Application

Grout Cracks - Gravity feed SurePoxy HMLV-Class B into horizontal cracks, pressure inject into vertical or overhead cracks, after sealing.
Anchor bolts - Use either neat or with SurePoxy Grout Aggregate, added at the rate of 5-7 parts to 1 part of SurePoxy HMLV-Class B by volume.

Mortar - Mix with SurePoxy Mortar Aggregate, added at the rate of 5-7 parts to 1 part SurePoxy HMLV Class B by volume.

Precautions

Do not thin SurePoxy HMLV-Class B. Do not apply to surfaces below 40°F, unless checking with the factory first. Pot life will vary due to different temperatures. . If used at temperatures greater than 60°F, the reaction time is very fast and subsequently should be extended with aggregates when any sizeable mass is utilized. 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. During cold weather periods, be sure frost and/or ice is off concrete before applying SurePoxy HMLV-Class B because it cannot adhere well to ice crystals. SurePoxy HMLV Class B is a vapor barrier after cure. Read Material Safety Data before using. Please refer to the *General Epoxy Instructions* for complete details on proper application during cold and hot weather.

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