SurePoxy HMLV

**Description**
SurePoxy HMLV 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. It does not contain fillers or non-reactive diluents. SurePoxy HMLV comes complete in one package, containing both components, so there is less chance of a mixing error.

**Uses**
SurePoxy HMLV is recommended for base plates and bolt grouting and for use as a low viscosity, penetrating sealer. SurePoxy HMLV 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.

**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 qt. unit)
- 11.36 Liters (3 gal. unit)
- 450 ML (16.5 oz. cartridge-.129 gal.)
- 6 per carton

**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 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 SurePoxy Aggregate to 1 part neat SurePoxy HMLV to produce a mortar. Mix thoroughly.

**Typical Properties @ 75°F and 50% RH**

**Uncured**
- Mixing Ratio: 2:1 by volume
- Color: A-Clear; B-Dk. amber
- Mixed-Dk. amber
- Viscosity: 400-700 cps. max.
- Shelf Life: 1 year minimum
- Pot life, neat 1 pt.: 25-35 min.
- Final Cure: 3 days

**Cured**
- HDT: 133°F
- ASTM D-648: 1,885 psi. min. @ 3 days
- Blended Strength: 8,500 psi. @ 1 day
- Compressive Strength: 9,500 psi. @ 3 days
- Tensile Strength: 7,100 psi. min. @ 7 days
- & elongation: 1-5%
- Flexural Strength: 15,000 psi. min. @ 7 days
- Flexural modulus: 450,000 psi. min. @ 7 days
- Shrinkage: .002 max

All values approximate—will vary with temperature and humidity.
**Application**

Grout Cracks - Gravity feed SurePoxy HMLV into horizontal cracks, pressure feed into vertical or overhead cracks. Be sure and insert ports into crack first. Then seal around ports and along crack with proper gel. Anchor Bolts, Rods, etc - Use either neat or with SurePoxy Aggregate, added at the rate of 5-7 parts to 1 part of SurePoxy HMLV by volume. If used neat, hole size should be 1/8" larger diameter than imbedded item.

Mortar - Mix with approximately 5-7 parts aggregate.

Seal Slabs - Spread neat SurePoxy HMLV over surface of slab with flat rubber squeegee or roller. Allow to penetrate, squeegee off excess before it hardens.

**Precautions**

Do not thin SurePoxy HMLV. 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.