

# K A U F M A N

PRODUCT  
INFORMATION

KAUFMAN  
PRODUCTS  
INC.

3811 CURTIS  
AVENUE

BALTIMORE,  
MARYLAND  
21226-1131

410-354-8600  
800-637-6372

[www.kaufmanproducts.net](http://www.kaufmanproducts.net)

## 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.

### 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	
Bond Strength	1,885 psi. min. @ 3 days
ASTM C-882	
Compressive Strength	9,000 psi. @ 1 day 10,500 psi. @ 3 days
5:1 mortar ASTM D-695	
Tensile Strength & elongation	7,100 psi. min. @ 7 days 1-5%
Flexural Strength	15,000 psi. min. @ 7 days
Flexural modulus	450,000 psi. min. @ 7 days
Shrinkage	.002 max
ASTM C-883	

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 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.

For professional use only. Not for sale to or use by the general 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, 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. User shall determine the suitability of the product or the intended use and assume all risks and liability in connection thereto. Our salesmen, Distributors and their salesmen have no authority to change the printed recommendations concerning the use of our products.

## **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.