

# K A U F M A N

PRODUCT  
INFORMATION

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## SurePoxy HM

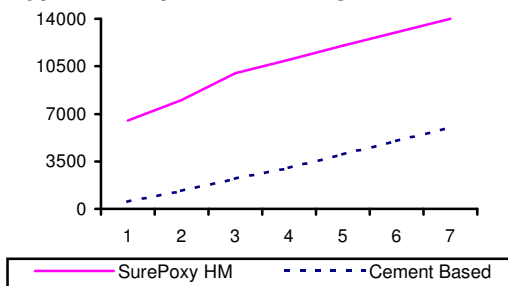
### Description

SurePoxy HM is a 100% solids, two-component, and moisture-insensitive, epoxy resin system. It is an all purpose, very high strength rigid adhesive designed for structural bonding of dry and damp materials free of standing water.

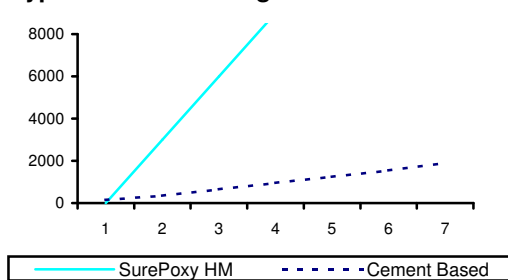
### Uses

SurePoxy HM is especially suited for bonding of fresh plastic concrete to hardened concrete and steel. When mixed with SurePoxy Aggregate, it will produce a high strength grout to level base plates, or use as setting bed for precast concrete, granite or marble. When used neat, it is an excellent adhesive for grouting anchor bolts, pins, dowels, etc. SurePoxy HM can also be used to grout horizontal cracks in concrete and wood by gravity feed.

### Typical Compressive Strength



### Typical Tensile Strength



### Physical Properties @ 75°F and 50% relative humidity

#### Uncured

Mixing Ratio	2:1 by volume
Color	A-straw, B-amber Mixed-amber
Initial Viscosity	3000-3500 cps. (similar to heavy oil)
Shelf Life	1 year minimum
Pot Life, neat 1 pint 1 gallon	30-40 minutes 18-20 minutes
Tack-free (thin film)*	3.5 hours
Final Cure	3 days

\*When applied promptly after mixing.

#### Cured

HDT	55°C
ASTM D-648	
Bond Strength	1700 psi. @ 2 days
ASTM C-882	2400 psi. @ 14 days
Shore D Hardness	80 minutes
Compressive Strength	6,500 psi. @ 1 day
3:1 Mortar ASTM D-695	10,000 psi. @3 days 14,000 psi. @ 7 days
Compressive Yield	12,000 psi. @ 7 days
Compressive Modulus	500,000 psi. @ 7 days
Tensile Strength & elongation	8,500 psi. @ 3 days 1-4% @ 7 days
ASTM D-638	
Flexural Strength	15,000 psi. @ 7 days
Flexural Modulus	450,000 psi. @ 7 days
Shrinkage, ASTM D-883	.002 max.
Water Absorption	0.45%

All values approximate - will vary with temperature and humidity.

### Specifications

ASTM C-881, Types I, II, IV & V, Grade 2, Class C  
AASHTO M-235, Types I, II, IV & V, Grade 2, Class C  
Virginia DOT, EP-4  
USDA OK

### Packaging

487.96 Milliliter	(16.5 oz. cartridge)
2.84 Liter	(.75 gallon unit)
11.36 Liter	(3 gallon unit)
56.78 Liter	(15 gallon unit)
624.59 Liter	(165 gallon unit)

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.

## Storage Conditions

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

## Directions

### Surface Preparation

Concrete - Satisfactory performance of SurePoxy HM is dependent upon the surface to which it will be applied. Only sound clean surfaces should be coated and concrete should be a minimum of 28 days old. Remove oil, wax, curing compound, laitance, and other foreign matter as per ASTM D-4258 and D-4259. Water-blasting followed by shotblasting is the preferred method of preparation. Also satisfactory are sandblasting or shot-blasting individually. Acid etching according to ASTM D-4260 with Kaufman Products Concrete Floor Etch or 15-20% solution of muriatic acid can be used as an alternative. Be sure to rinse thoroughly with clear water to remove all residue. The surface shall be uniformly roughened to a degree similar in appearance to #5 or #6 texture as specified by ICRI, International Concrete Repair Institute.

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

### Proportioning/Mixing

The volumetric ratio of SurePoxy HM is 2:1 (A:B). To mix, proportion 2 parts A and 1 part B into a clean pail. thoroughly for 3 minutes, with paddle or low-speed (400 to 600 rpm) drill until blend is uniform color.

### Application

Bond fresh concrete to hardened concrete -Apply with brush or roller to substrate containing less 4% moisture. One gallon neat SurePoxy HM applied to prepared surface covers approximately 80 ft<sup>2</sup>.

Place concrete while SurePoxy HM is still wet and sticky. If SurePoxy HM loses its tackiness, apply a fresh coat and proceed.

*Anchor bolts, dowels, and pins in vertical holes on horizontal slabs-* Pour neat SurePoxy HM into dry or damp hole. Partially fill hole, then insert dry bolt. Work bolt up and down to compact grout. Secure bolt with template. With bolt in position, fill remainder of hole.

For embedment of bolts in overhead and vertical surfaces, use SurePoxy HM Gel or SurePoxy 117.

*Grouting base plates* - Add up to 2 parts by volume SurePoxy Aggregate to 1 part neat SurePoxy HM to produce a grout. Place grout under base plate in 1 1/2" lifts up to 1/4-3/8" below the underside of the plate. The remaining space should be filled with neat SurePoxy HM. Use sufficient neat SurePoxy HM to allow the level to rise slightly higher than the underside of the bearing plate.

*Gravity feed cracks* - Pour neat material into V-notched crack. Fill completely. The underside of the crack should be sealed prior to filling.

### Precautions

Do not thin SurePoxy HM. 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. Read Material Safety Data before using. SurePoxy HM forms a vapor barrier after cure. Please read *General Epoxy Instructions for 100% Solid Systems* for more complete information. 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.