

# KAUFMAN

PRODUCT  
INFORMATION

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## SurePoxy HM Class B

### Description

SurePoxy HM Class B is a high modulus, 100% solids, two-component, 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. This product is chemically engineered specifically for cold weather work in temperatures as low as 32°F. SurePoxy HM Class B does not contain fillers or non-reactive diluents.

### Uses

SurePoxy HM Class B is recommended for use in cool temperatures for grouting base plates, bolts, bonding fresh concrete to old or use as a low viscosity, penetrating sealer. HM 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. Material may also be used at temperatures greater than 60°F, to provide a very fast setting epoxy system.

### Typical Properties

Uncured	75°F	42°F
Mixing Ratio	2:1 by volume	2:1 by volume
Color	A-amber B-amber Mixed-amber	A-amber B-amber Mixed-amber
Viscosity	1000 cps. max	3500 cps.
Shelf Life	2 year min.	2 year min.
Pot Life, neat 1 lb.	10 min.	25 min.
Tack-free (thin film)	2 hours	20 hours
Final Cure	1 day	7 days

### Fully Cured

HDT (ASTM D-648)	55°C
Bond Strength (ASTM C-882)	1,685 psi. min.
Compressive Strength	12,500psi. min.
5:1 mortar ASTM D-695	
Compressive Yield Strength	13,000psi. min.
Compressive Modulus	500,000psi. min.
Tensile Strength	9,000 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.

### Specifications

ASTM C-881, Types I, II, IV & V, Grade 2, Class B  
AASHTO M-235, Types I, II, IV & V, Grade 2, Cl. B

### VOC

0 grams/Liter

### Packaging

3 gallon unit  
15 gallon unit

### 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 Class B 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. Sandblasting and mechanical scarification according to ASTM D-4259 are the preferred methods of properly preparing the floor. 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. Be sure to rinse thoroughly with clear water to remove all residue. The surface shall uniformly be roughened to a degree similar in appearance to coarse sandpaper-aggregate may show. Steel Sandblast to appropriate finish. Expansion/control joints, joint sealants, floor drains and floor termination joints require special attention. HM Class B will not usually adhere to sealant joints. Test first.

### Proportion Mixing

The volumetric ration of SurePoxy HM Class B 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 uniform color. Add approximately 3 parts by volume SurePoxy Mortar Aggregate to 1 part neat SurePoxy HM Class B to produce a mortar at 42°F. At 75°F up to 7 parts SurePoxy Mortar Aggregate may be used. Mix thoroughly.

## Application

*Bonding fresh concrete to hardened concrete* – apply at rate of 80 ft<sup>2</sup>/gl. to concrete containing less than 4% moisture. *Grout Cracks* - Gravity feed SurePoxym Class B into horizontal cracks, pressure feed into vertical or overhead cracks. *Anchor bolts* - Use either neat or with SurePoxym Aggregate, added at the rate of 5-7 parts to 1 part of SurePoxym Class B by volume. *Seal Slabs* - Spread neat SurePoxym Class B over surface of slab with flat rubber squeegee or roller.

## Bonding

New to Old Concrete Directions for new concrete to old concrete at temperatures 40-60°F. Apply fresh concrete while HM Class B is still tacky. If SurePoxym HM Class B begins to lose its tackiness because it is setting up, apply a fresh coat immediately. If the material does set up, it will require proper surface preparation prior to any re-application of the bonding agent, including methods such as acid etching, sand blasting, shot blasting, etc. Always prepare the substrate according to directions from the International Concrete Repair Institute, Guideline Specification 03732, *Selecting & Specifying Concrete Surface Preparation for Sealers, Coatings, and Polymer Overlays*.

## Precautions

Do not thin SurePoxym HM Class B. Do not apply to surfaces below 40°F, unless checking with the factory first. Do not apply mortar over existing expansion joints or moving cracks and/or construction joints. *Read Safety Data Sheet before using.* 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.

## Technical Information

Test results were achieved under laboratory conditions. Statistical variations will occur based upon mixing methods, temperature & humidity, test methodology, site conditions, curing conditions, application methods, and equipment.

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