KAUFMAN

PRODUCT INFORMATION

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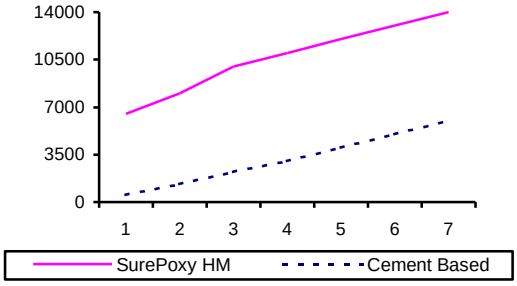
SurePoxy HM

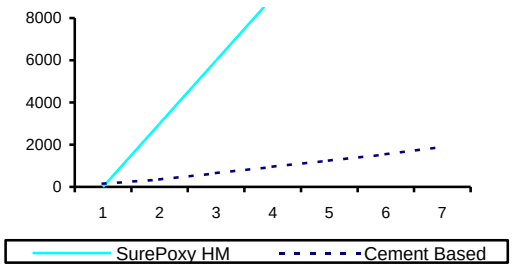
Description
SurePoxy HM is a 100% solids, two-component, and moisture-insensitive, epoxy resin system. It is an all purpose, very high strength rigid adhesive designed for structural bonding of dry and damp materials free of standing water. SurePoxy HM may be used with concrete, metals such as steel, wood, and other substrates.

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 (ASTM D-1084)	3000-3500 cps. (similar to heavy oil)
Shelf Life minimum	1 year
Pot Life, neat 1 pint	30-40 minutes
1 gallon	18-20 minutes
Tack-free (thin film)*	3.5 hours
Final Cure	3 days

**When applied promptly after mixing.*

Cured

HDT (ASTM D-648)	130°F
Bond Strength (ASTM C-882)	4,700 psi. @ 2 days 3,100 psi. @ 14 days
Shore D Hardness (ASTM D-2240)	80
Compressive Strength	6,500 psi. @ 1 day
3:1 Mortar (ASTM C-579)	10,000 psi. @3 days 14,000 psi. @ 7 days
Compressive Yield (ASTM D-695)	13,000 psi. @ 7 days
Compressive Modulus (ASTM D-695)	400,000 psi. @ 7 days
Tensile Strength & elongation (ASTM D-638)	7,800 psi. @ 7 days 1.97% @ 7 days
Flexural Strength (ASTM D-790)	15,000 psi. @ 7 days
Shrinkage, ASTM D-883	.002
Water Absorption (ASTM D-570)	0.07%

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
16.5 oz. cartridge
3 gallon unit
15 gallon unit

Storage Conditions
Store dry at 40-95°F. Condition material to 65-85°F before using. If used in temperatures below 60ºF, both SurePoxy HM and the substrate must be pre-conditioned to a minimum of 60ºF.

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 Concrete Surface Profile (CSP) #5 or #6 textures as specified by ICRI, International Concrete Repair Institute.

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

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^2.

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 Safety Data Sheet 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.

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.