

K A U F M A N

PRODUCT
INFORMATION

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SurePoxy HM EPL

Description

SurePoxy HM EPL is a unique, three component mixture combining the benefits of 100% solids epoxy resin and portland cement. It is packaged in its own mixing container. This perfect blend of moisture- insensitive epoxy resins and portland cement produces a structural adhesive/coating that is unique in that it provides the longest pot life and open time available. It gains strength at approximately the same rate as concrete.

Uses

SurePoxy HM EPL is especially recommended for bonding fresh concrete overlays, toppings, patches and shotcrete to existing substrates. The long open time allows SurePoxy HM EPL to be applied at least one day before topping an existing substrate. This gives workmen plenty of time after applying SurePoxy HM EPL to place reinforcement or forms before pouring the concrete. It is excellent for one-sided forming.

SurePoxy HM EPL is also excellent as an anti-corrosion coating to protect reinforcing steel.

Features

- 100% solid system
- Non-shrinking - Does not contain water
- Corrosion resistant with one coat
- Extended contact time
- Gains strength at approximately the same rate as concrete
- Self contained factory proportioned units for error-free mixing
- Free of organic solvents
- VOC compliant
- ½ application rate, since it is 100% solid
- Concrete gray color
- Can be applied between 60-95°F
- Clean up with water

Physical Properties @ 72°F and 50% relative humidity.

Uncured

Color	Concrete Tan
Initial Viscosity, neat	800 cps.
W/aggregate	3500-4000 cps.
Shelf life	1 year minimum
Pot life, neat 1 qt.	31 hours
Tack-free (thin film)	up to 33 hrs.
Final Cure	28 days

Cured, 28 days unless otherwise noted

HDT	116°F
ASTM D-648	
Bond Strength	>2,000 psi.
ASTM C-882	
Shore D Hardness	75
Compressive yield strength	8,600 psi. @ 7 days
3:1 mortar ASTM D-695	10,500 psi @ 14 days
Compressive modulus	350,000 psi.
Tensile strength & elongation	8,000 psi.
ASTM D-638	4.0%
Flexural strength	12,000 psi.
Flexural modulus	450,000 psi.
Water Absorption, 24 hrs.	.20

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, Grade 2, Class C

Above modified due to longer contact time

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.

Packaging Yield

This product is a 3-component mix. It consists of a carton containing 2/1 gal. cans of components A & B. Part C is a bag containing 37# of a cementitious component.

Each complete unit yields approximately 3.85 gal. (889 in³) of material. When applied at 80 ft²/gal., one unit will cover 308 ft². If applied at 160 ft²/gal., one unit will cover 616 ft².

Directions

Surface Preparation

Concrete -Surface must be clean and sound. It may be dry or damp but free of standing water. Remove laitance, and all foreign matter as per ASTM D-4258 and D-4259. Water-blasting followed by shotblasting is the preferred method of preparation, to provide a fractured aggregate profile of at least 1/8" equal to texture #4-#5 from ICRI. 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 for final rinsing after acid.

Expansion/control joints, joint sealants, floor drains and floor termination joints require special attention. SurePoxxy HM EPL will not usually adhere to sealant joint products. Test first. Steel - Sandblast to white metal.

Proportioning/Mixing

Remove all ingredients from pail. Stir each gallon can well and empty contents into 5 gal. pail. Mix the two gallons in the pail with low speed (400-600 rpm) drill until uniform. Pour bag of aggregate into pail containing the two gallons and mix again for two minutes. Keep material well stirred until used.

Application

Bonding fresh concrete to hardened concrete

During warm weather, wet down surface with water to reduce suction. Apply SurePoxxy HM EPL to hardened concrete at 80 sq.ft./gal. (20 mils) with stiff brush, broom or Goldblatt Pattern Pistol or equal promptly after mixing. Apply fresh concrete up to 30 hours after application of SurePoxxy HM EPL when SurePoxxy HM EPL was applied promptly after mixing at 70°F. If SurePoxxy HM EPL loses its gloss due to suction into the substrate or high temperatures, apply additional coat, while first coat is still tacky

For corrosion protection of steel: Apply by stiff bristled brush or airless spray at approximately 160 ft²/gal. (10 mils). Be sure to coat the exposed steel completely. Allow coating to dry 2-3 hours @75° then apply a second coat at the same coverage. Allow to dry again before the repair mortar or concrete is placed.

Shotcrete- Wait a minimum of 6 hours after SurePoxxy HM EPL application. Early shotcreteing may dislodge the epoxy.

Precautions

Do not thin SurePoxxy HM EPL. Pot life will vary substantially due to different temperatures. The contractor shall use the test method prescribed in ACI 503R to determine that the preparation produced a surface capable of providing a tensile bond strength greater than 250 psi. SurePoxxy HM EPL is a vapor barrier after cure. Store this product above 45 °F. Read Material Safety Data before using. Please refer to the *General Epoxy Instructions* for complete details on proper application during cold and hot weather.