

K A U F M A N

PRODUCT
INFORMATION

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SurePoxy HiBild

Description

SurePoxy HiBild is a two component, 100% solids, flexibilized epoxy coating, utilizing the inherent advantages of tough epoxy resins, cross-linked with aliphatic adducted hardeners. When combined, they form an integrally hardened protective coating, resistant to mild abrasion and chemicals. The special hardeners provide excellent adhesion to either dry or damp surfaces and make the coating completely insensitive to moisture after cure. HiBild is unique in that it does not blush or form other surface imperfections during cure. HiBild is available either clear or pigmented. When pigmented, only highest quality, inert, alkali and light resistant pigments are used. If desired SurePoxy Mortar Aggregate may be integrally added for increased yield or broadcast on the surface for non-slip purposes.

Uses

HiBild provides a stress-relieved coating for concrete, masonry, and steel surfaces. It provides a high build chemical, abrasion, and water resistant, tile-like coating. The glossy finish resists industrial detergents and graffiti and is suitable for use both indoors or outdoors as a high build protective and waterproofing coating. Excellent for coating rebar before patching, to protect the steel from corrosion, that might get into concrete. HiBild is completely resistant to salt and their ions.

Typical Properties - 75°F and 50% Relative Humidity

NVM	100%
Mixing Ratio	1:1 by volume
Viscosity	4,000-6,000 cps.
Shelf Life	1 year min.
Pot Life	45-55 min.
Tack Free	4 hours
Initial Cure	8 hours
Final Cure	7 days

Ultimate Physical Characteristics

Compressive Strength ASTM D-695	3500 psi. min @ 1 day 6000 psi. min @ 7 days
Tensile Strength ASTM D-638	2000 psi. min @ 7 days 20-30 % elongation
Hardness, Shore D ASTM D-2240	74

Chemical Resistance - immersion

Reagent	Exposure	Results
Acetic Acid 5%	1 month	SS
Acetic Acid 10%	1 month	S
Acetic Acid 50%	1 month	failed
Butyl Alcohol	1 month	S
Calcium Chloride 78%	1 month	U
Carbon Tetrachloride	1 month	S
Citric Acid 10%	1 month	U
Cotton Seed Oil	1 month	U
Detergent Solution	1 month	U
Ethyl Acetate	1 month	U
Ethylene Glycol	1 month	SS
Gasoline	1 month	S
Hydrochloric Acid 10%	1 day	S
Hydrogen Peroxide, 20%	1 month	S
Lard	1 month	U
Jet Fuel JP-4	1 month	S
Lactic Acid 3%	1 month	U
Lactic Acid 10%	1 month	S
Lactic Acid 50%	1 week	failed
Methyl Ethyl Ketone	1 month	failed
Methanol month	1 month	failed
MIBK	1 month	failed
Mineral Oil	1 day	failed
Phosphoric Acid 85%	1 month	S
Motor Oil	1 month	U
Sea Water	1 month	U
Sodium Hydroxide	1 month	U
Sulfuric Acid 20%	2 months	failed
Toluene	1 month	S
Water	1 month	U

Codes:	S	Satisfactory
	SS	Slightly Softened
	U	Unaffected

* Satisfactory to spillage, but not to continuous immersion

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.

Compliances

ASTM C-881. Type III, Grade 2, Class C
USDA Approved
State Specifications
NJ - Spec. 912.25 -Type 111, Grade 2
NC - 4A - Med. Gray; 4B - Orange
VA - EP-3T - Med Gray; EP-3B - Orange

VOC

0 grams/liter

Colors

Med Gray (Fed# 16357), and Orange
Other colors available upon request.

Packaging

7.57 Liters (2 gal. unit)
37.85 Liters (10 gal. unit)

Directions

Surface Preparation

Follow ACI 503 recommendations Concrete - Satisfactory performance of SurePoxo HiBild 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 shot blasting 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% muriatic acid solution can be used as an alternative. Be sure to rinse thoroughly with clear water to remove all residues. The surface shall be uniformly 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. SurePoxo HiBild will not usually adhere to sealant joints. Test first.

Mixing

Stir each component and then combine into a clean container. Combining ratio is 1:1 by volume. Stir the mixture thoroughly with a paint mixer attached to a low speed (500 rpm.) drill for 2 minutes. Re-stir before using, after 5-8 minutes induction period.

Application

Apply with 3/8" - 7/16" nap roller, brush or spray (Graco 1:1 King with 40:1 lowers, Fixed Ratio Hydrocat, system number HC 7888, or equal). Binks model # 18 air atomized spray gun (#68 fluid nozzle, #68 PB air nozzle, #68 fluid needle, #83-5661 two gallon pressure fluid tank). Allow each coat to dry before applying next coat, however, never wait more than 36 hours before recoating.

Coverage Rate

100 ft²/gal. 16 mils. thick
State specifications may require special coverage rates.

Note

To provide a non-slip surface, simply sprinkle an excess, approximately 1/3 lb./sq. ft. of SurePoxo Aggregate Mortar on the surface of the first coat while it is still wet. When it is dry, sweep off excess and apply second coat.

Precautions

For increased chemical and abrasion resistance, apply Ultimate or K Pro CRS on top of HiBild. This product is not designed to be submerged in chemicals for long periods, nor is it meant to be subjected to temperatures above 130°F. Avoid driving or parking rubber tire vehicles or using surface for storage until HiBild is thoroughly cured. HiBild forms a vapor barrier after cure. Do not apply to surfaces where vapor can condense under the coating. Store this product between 50-90°F. Concrete should be at least 3-4 weeks old, depending on curing and drying conditions. Due to ultraviolet light, all epoxy coatings will eventually develop a yellowish cast and lose some gloss in time. Read Material Safety Data before using. Please refer to the *General Epoxy Instructions* for complete details on proper application during cold and hot weather.