KAUFMAN

PRODUCT INFORMATION

KAUFMAN PRODUCTS INC. 3811 CURTIS AVENUE BALTIMORE, MARYLAND 21226-1131 410-354-8600 800-637-6372 www.kaufmanproducts.net

SurePoxy HiBild

Description

SurePoxy HiBild is a two component, self-priming, 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. Only the 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

SurePoxy 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 water-proofing coating. Excellent for coating rebar before patching, to protect the steel from corrosion that might get into concrete. SurePoxy HiBild is resistant to salt and their ions.

Typical Properties - 75°F and 50% Relative Humidity

NVM	100%
Mixing Ratio	1:1 by volume
Viscosity (AST M D-1084)	13,000-14,000 cps.
Shelf Life	1 year min.
Pot Life	45-55 min.
Tack Free	4-5 hours
Initial Cure	8 hours
Final Cure	7 days
Dry Film Thickness (ASTM D-1005)	1st Coat 8 mils
	2nd Coat 8 mils

Ultimate Physical Characteristics

Sagging (ASTM D-4400)	10 mils
Flexibility (Fed. Spec. TT-P-115)	No Cracking Observed & No Delamination
Tensile Strength @ 7 Days (MSMT 609)	2,250 psi.

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

VOC Content
0 grams/liter

Packaging
2 gallon unit
10 gallon unit
100 gallon unit

Directions
Surface Preparation
Satisfactory performance of SurePoxy HiBild is dependent upon the surface to which it will be applied. Only sound clean surfaces should be coated. All cracks, spalls, voids, pitting, and surface imperfections must be repaired prior to application. Concrete should be at least 28 days old (depending on curing and drying conditions) or substantially cured to the equivalent design strength prior to coating application. Remove oil, wax, curing compound, laitance, and other foreign matter prior to application to achieve adequate adhesion. The surface shall be uniformly roughened to a degree similar in appearance to coarse sandpaper -aggregate may show. Follow ICRI Guidelines to achieve a CSP of 2-4 prior to application. Steel - Sandblast to appropriate finish.

Expansion/control joints, joint sealants, floor drains and floor termination joints require special attention. SurePoxy 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
Allow each coat to dry before applying the next coat, however, never wait more than 24 hours before recoating.

Coverage Rate
200 ft^2/gallon 8 mils thick
250 ft^2/gallon 4 mils thick

State specifications may require special coverage rates.

Note
To provide a non-slip surface, simply sprinkle an excess, approximately 1/3 lbs/ft^2 of SurePoxy Mortar Aggregate 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 K Pro CRS on top of SurePoxy HiBild. This product is not designed to be submerged in chemicals for long periods, nor is it meant to be subjected to temperatures above 120°F. Avoid driving or parking rubber tire vehicles or using surface for storage until SurePoxy HiBild is thoroughly cured. SurePoxy 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. Condition the material to between 60-80° F, prior to use. Minimum substrate and air temperature for application is fifty degrees Fahrenheit. Concrete should be at least 28 days old (depending on curing and drying conditions) or substantially cured to the equivalent design strength prior to coating application. Due to ultraviolet light, all epoxy coatings will eventually develop a yellowish cast and lose some gloss in time. *Read Safety Data Sheet before using.* Please refer to the *General Epoxy Instructions* and *Concrete Substrate Preparation* technical reports for complete details on proper application.

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.

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 detective. 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 salespeople, distributors, and their salespeople have no authority to change the printed recommendations concerning the use of our products.