



EPOTECH 153 HB AR

(Paints & Coatings)

HEAVY DUTY, HIGH PERFORMANCE

GENERIC CLASS: High-build, heavy duty acid resistant two component amine cured solventless epoxy, containing acid resistant aggregate.

PRODUCT DESCRIPTION: High-build monolithic mortar floor surfacer with superior bonding characteristic, when applied is impossible to remove. Epotech 153 HB-AR inhibits an exceptionally tough, impact and abrasion resistant surface. It is skid resistant, sanitary, non-shrinking.

TYPICAL USES: Resurfacing floors in industrial plants capable of exposures to high traffic, heavy loads, corrosive spillage of acids and severe hot water clean-up procedures. Fillers of large cracks, eroded concrete, concrete holes, etc.

LIMITATIONS: Not recommended for immersion service in strong concentrated oxidizing acids and solvents.

CHEMICAL RESISTANT GUIDE:

Exposure	Immersion	Splash & Spillage	Fumes
Acids	Very Good	Excellent	Excellent
Alkalies	Very Good	Excellent	Excellent
Solvents	Very Good	Excellent	Excellent
Petroleum	Very Good	Excellent	Excellent
Gasoline	Excellent	Excellent	Excellent
Oil	Excellent	Excellent	Excellent
Salt Water	Excellent	Excellent	Excellent
Fresh Water	Excellent	Excellent	Excellent

NOTE: Slight discoloration when service to strong concentrated acids, but will not affect performance. Although the chemical test indicated show that Epotech 153 HB-AR is unaffected by immersion as listed, it is not meant to imply an express guarantee in actual service. The service is dependent upon application and actual operating conditions, and it is generally recommended that users confirm adaptability of the product for a specific use by their own tests.

NOTE: (Cont.) Although this coating may be resistant to highly corrosive solutions, such as sulfuric acid, it would not be recommended or use as a tank lining where continuous immersion is anticipated. Use of such chemical exposures should be confined to splash, spills and fumes.

PHYSICAL CHARACTERISTICS:

COMPRESSIVE STRENGTH,	
ASTM D695	8,500 - 9,500 PSI
MODULUS OF ELASTICITY,	
ASTM D695	1,062 X 10 ⁶
TENSILE STRENGTH,	
ASTM D638	2,500 - 3,500 PSI
FLEXURAL STRENGTH,	
ASTM D790	2,800 - 3,600 PSI
THERMAL COEFFICIENT OF LINER EXPANSION,	
ASTM D696	6.16 X 10 ⁻⁶ in/in/°F

VOLUME SOLIDS:

Epotech 153 HB AR 100%

COLOR (MIXED): Beige, Green, Gray
Other colors are available upon request.

POT LIFE: 60 Minutes

SURFACE PREPARATION:

NEW CONCRETE: New concrete must have a minimum of 28 days cure, and no curing agents or sealers shall be used.

Remove oil, grease or other loose or foreign materials and contaminants.

A good bonding tooth, a texture of rough sand paper, is desired with the removal of all glaze. To provide the foregoing bonding tooth, it is necessary to prepare the surface using one or more of the following methods:

NEW CONCRETE: (cont.)

- a) Sand blast with fine sand and reduce pressure
- b) Scarify
- c) Acid etch

OLD CONCRETE: Remove all powdery, weak concrete, paint, wax oil, grease or other contaminants. The concrete must be neutral or slightly alkaline.

Once the concrete has been cleaned and neutralized, one or more of the following methods shall be used to provide a good bonding tooth, a surface with a texture of rough sand paper, with the removal of all glaze.

- a) Sandblast with fine sand and reduced pressure
- b) Scarify or chip
- c) Acid etch

NOTE: Degree of contamination and intended service will determine degree of surfacer preparation. All surfaces must be dry before application.

METAL SURFACES: Clean by solvent degreasing followed by abrasive blasting to near white SSPC-10-70 or NACE #2 with a 4 mil minimum anchor pattern or "tooth"

APPLICATION TEMPERATURE: Do not apply when surface temperature is below 60°F (15.5°C).

Epotech 153 HB-AR floor surfacer is a two component product kit identified as a unit.

- Part A - Resin with acid resistant silica sand filler
- Part B - Hardener with acid resistant silica sand filler

One kit produce approximately 2.0 gals. (7.6 lit.) of mixed (Parts A and B)

WARNING: This product is solventless epoxy. DO NOT THIN!

COVERAGE: One kit (Part A and B mixed)

<u>THICKNESS (in)</u>	<u>AREA (Sq. Ft.)</u>
1/8"	26 sq. ft.
1/4"	13 sq. ft.
3/8"	8.6 sq. ft.
1/2"	6.4 sq. ft.

MIXING: Mixing ratio of liquid epoxy: 1.0 Part A to 1.0 Part B by volume. Empty the contents of Part B into Part A and mix thoroughly. Then empty the mixture into a mixer draining the can for 1/2 minute. Start mixer and slowly until homogenous mixed is obtained.

NOTE: Person mixing should wear a gas mask or respirator.

APPLICATION PROCEDURES: Pour the entire batch unto the floor in a ribbon like approximately 12 inches wide. Spread with a clean steel trowel, applying pressure to scratch or chip surfaces. Smooth the surface with trowel holding it almost flat and applying light pressure. Finish each batch as you go. Apply 1/8" thick minimum. Joints on unfinished monolithic edges, where work to be continued on the succeeding day. Cut edges 1/2 of the required thickness then scarify surface when mixed still tacky. Wash the trowel with thinner when difficulty incurred in smooth finishing.

FINISHING THE EDGES: When possible, cut approximately 1/2" deep chase or groove into the concrete. Chased a shoulder to the saw cut, back approximately 2 to 4 inches. Trowel smooth to meet adjoining floor level.

CURE TIME: Epotech 153 HB-AR will harden within a few hours at 70°F. The warmer the temperature, the faster it cures. Allow to cure 24 hours for light traffic loads and 72 hours for heavy traffic loads and 6 days to chemical splash and spillage.

CLEAN UP: Cured or hardened Epotech 153 HB-AR is almost impossible to remove. Clean tools and equipment immediately with Ultracote Thinner #15. Wash hand and contact skin with warm soapy water.

SHELF LIFE: 24 months at 70°F.

SAFETY MEASURES:

- 1) It is recommended that the personnel observe good personal hygiene. Certain personnel may be sensitive to various types of resins, which may cause dermatitis.
- 2) The Ultracote Thinner/Cleaner recommended in this bulletin is flammable and care as demanded.

Keep away from heat, sparks, and open flame and use necessary safety equipment such as air mask, non-sparking tools. Avoid contact with skin and breathing of vapor or spray mist. When working in tanks, rooms and other enclosed spaces, adequate ventilation must be provided. Keep out of the reach of children.

PACKAGING:

GALLON KIT 1

.5 Gallon A

.5 Gallon B

GALLON KIT 2

1.0 Gallon A

1.0 Gallon B

PRODUCT WARRANTY:

Epotech 153 HB-AR is warranted under the following policy:

All recommendations, statements and technical data contained herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not construed as a warranty either expressed or implied. User shall rely on his own information and tests to determine suitability of the product for the intended use and user assumes all risk and liability resulting from his use of the product. Sellers and manufacturers' sole responsibility shall be to replace that portion of the product of this manufacturing proves to be defective. Neither seller nor manufacturer shall be liable to the buyer or any injury, loss or damage directly or indirectly resulting from use of or inability to use the product. Recommendations or statements other than those contained in a written agreement signed by an officer of the manufacturer shall not be binding upon the manufacturer and seller.

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