Technical Data Sheet
HBE™
100% Solids Epoxy

Description

High Build Epoxy (HBE™) is a two part 100% solids, self-leveling, high performance coating system. It has excellent flowability and very good chemical resistance/physical properties. This formulation is design to be used in a wide range of applications from 8- 50 mils in thickness.

Advantages

- High Gloss Finish
- Self-Leveling
- UV Resistant
- Excellent abrasion/ chemical resistance
- Superior adhesion
- VOC Compliant , no solvents, no fire risk
- Odor Free

Colors

A variety of colors can be added using our HBE pigment packs.

Typical Uses

HBE is typically used as a broadcast/build coat for Tru-Armour, Tru-Quartz and Tru-Shield flooring systems.

Restrictions

- Surface temperature must be between 55° - 85°F
- Do not apply material when humidity is above 85%
- Humidity content of substrate must be < 4% when product is applied
- Epoxy primer may be necessary on porous surfaces

Surface Prep

Concrete surfaces must be cleaned. BLASTRAC, sand blasting, diamond grinder w/30 grit or coarse, or water blasting is highly recommended to remove surface contaminants.
Any oils and fats must be removed prior to product application. Acid etching may be required (followed by a thorough rinsing) to open the pores of the concrete to accept a primer.
Do not apply to wet substrates. Chloride, moisture, and pH levels should be checked prior to application. In almost every application a primer is recommended prior to use of HBE.

Mixing

Materials should be pre-conditioned to a minimum of 50°F prior to use. Thoroughly mix each component separately using paddle mixers and a drill for a minimum of 2 minutes to insure that the solids content is evenly in suspension. Pour component B into component A using the proper mixing ratio of 2A:1B by volume. Mix both components for at least 3 minutes using a drill at low revolution (300 to 450 rpm) to reduce trapping of air. While mixing, scrape bottom and walls of container at least once to ensure a homogeneous mix. Only prepare quantity that may be applied during pot life of mixture.

Application

HBE can be applied with a squeegee, brush or roller. Mil thickness will vary depending on the final flooring system being applied.

Cleaning

Clean tools with a solvent based thinner to remove any residue from tools or any product on unwanted areas. Cured product may need to be mechanically removed. Clean hands/body with hot soapy water.

Health and Safety

In case of skin contact, wash with water and soap. In case of eye contact, immediately rinse with water for at least 15 minutes. Consult with a doctor. For respiratory problems, transport victim to fresh air. Remove contaminated clothes and clean before reuse. Components A and B contain toxic ingredients. Prolonged contact of this product with the skin is susceptible to provoke an irritation. Avoid eye contact. Contact with may cause serious burns. Avoid breathing vapors release from this product. This product is a strong sensitizer. Wear safety glasses, chemical resistant gloves and a filtered breathing apparatus while handling this material.

HBE Technical Data			
Ratio	2A : 1B	**Pot Life**	50 min @ 70℉
Solids Content	100%	**Working Time**	40-50 min @ 70℉
VOC Content	0		
Color	Clear	**Cure Times @ 70℉**	8 hours - Dry to touch 16 hours - Foot traffic 5 days - Full cure
Viscosity	700cps	**Recoat Time @ 70℉**	16 hours - minimum 2 Days - Maximum
Packaging	3 Gallon Kit 2 gal - Part A 1 gal - Part B	**Coverage Rates**	60 sq ft / gal @25 Mils 150 sq ft / gal @ 12 mils 200 sq ft / gal @ 8 mils

NOTE: Times and data mentioned are based on laboratory conditions. Field results may vary and will be affected by changing ambient conditions, especially changes in temperature and relative humidity. Indicated mileage is calculated for flat surfaces. A porous or imperfect surface will require more material in order to cover the same mileage.

Physical Data	Test Method	Result
Adhesion	ASTM D4541	300 psi (failure of substrate)
Abrasive Resistance	ASTM D4060	.10g (CS17 / 1000 cycles / 1000g)
Compressive Strength	ASTM D695	14,000 psi
Flexural Strength	ASTM D790	4,300 psi
Permeability (%)	ASTM D570	0.3%
Elongation	ASTM D638	6.5%
Hardness, Shore D	ASTM D2240	85-90
Resistance to Mold Growth	ASTM D3273	Rated 10 (highest resistance)
Flammability		Self-Extinguishing
Flash Point		>93°F

HBE meets most requirements for durability & performance as well as aesthetics. Seamless plinths are optional with HBE COVE. This seamless coating from Trucrete offers a wide choice of colors, and a smooth or non-slip finish can be achieved using very fine to very aggressive aggregates. HBE meets LEED standards. HBE also meets FDA and USDA requirements. HBE is resistant to many common chemicals Please refer to our chemical resistance chart for more details.