



440LV EPOXY

HIGH BUILD, CHEMICAL RESISTANT
EPOXY COATING/OVERLAY/REPAIR MORTAR

PRODUCTION DESCRIPTION

440LV EPOXY is a 100% solid, high build, multi-purpose epoxy coating, overlay or repair mortar designed to provide sealing, repair, and protection of substrates, which will be exposed to chemical and physical environments. It is formulated to have outstanding adhesion, toughness, chemical and impact resistance. Ideal as a high build overlay or repair mortar for livestock facilities.

GENERAL USES

An attractive coating for floors, walls, berms or other areas in facilities with chemical exposure. Excellent choice for mixed or unknown chemicals for secondary containment applications. Ideal repair mortar for harsh environments.

Specialty uses include:

- May be reinforced with fiberglass for additional strength.
- May be made non-slip by using aggregate broadcast.
- Mix with 440LV Admix to create a chemical resistant overlay (V-GARD) or mortar (V-STONE) for patching and overlays.

FEATURES

- Chemical resistance
- Solvent resistant
- Abrasion resistant
- Good UV resistance
- No odor or fumes
- High gloss finish
- 100% solids
- High Build capabilities

STANDARDS

Complies with USGBC EQ Credit 4.2: Low - Emitting Materials: Paints & Coatings under Indoor Environmental Quality. VOC compliant.

INSTRUCTIONS FOR USE

Surface Preparation

The surface to be coated must be clean, sound, and free of dirt, oil, rust, standing water, paint, laitance, or any other contaminant that can interfere with the bonding of the coating of the surface. The surface can be prepared by sandblasting, shot blasting, scarifying, or chemical etch. Substrates must be surface-dry. New concrete must be cured at least 28 days. New concrete must be properly prepared as stated above. Substrate temperature must be greater than 50°F (10°C).

TECHNICAL DATA

LABORATORY TESTS	RESULTS
Mix Ratio	2:1 by Volume
Viscosity Mixed	900 CPS
Pot Life	40 Minutes
Tack Free to Touch	4-6 Hours
Initial Cure	24 Hours
Final Cure	7 Days
Hardness	80 Shore D
Rate of Application	75-125 SQ Ft/GI as coating
Slant Sheer Bond	2200 psi

PACKAGING

- 66 fl. oz. (1.9 L) kits for V-Stone mortar mix and priming (#VTK3012)
- 1.5-gallon (5.7 L) kits (#VTK3001)
- 15-gallon (57 L) kits; (3) 5-gallon pails (#VTK3002)
- 440LV Admix: 32 lb. (14.5 kg) bag (#VTK3007)
- 440LV Broadcast: available in 50 lb. bags (22.7 kg) bag (#VTK3010)



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MIXING

Prior to mixing, condition the coating components to a temperature range of 65°F to 80°F. (18°C to 27°C) for optimum installation characteristics and pot life. In a separate container add all of Component B (.5 gallon) to Component A (1 gallon) and mix for 3 to 5 minutes using a mixing implement. Thoroughly scrape the sides of the container while mixing. Thorough mixing is important to assure a positive cure for maximum performance. Mixing is best accomplished using a Jiffy® mixer or equivalent mixer powered by a variable speed drill motor operated at approximately 400-1000 rpm. Mixing too fast can whip air into the coating. No induction period is required

APPLICATION

Apply 440 LV EPOXY at a rate selected for the application as described in the Coverage section below. Application can be accomplished by brush, roller, or notched squeegee or trowel.

To avoid pin holing (from outgassing), apply two coats, each at one half the final selected mil thickness. Apply the coats at a 90-degree angle to each other. Apply the second coat as soon as the first coat is dry to the touch to ensure good adhesion between coats. Spike shoes are recommended for walking on wet epoxy.

For non-skid applications, apply a base coat of 10 mils over the substrate. While wet, broadcast (to excess) the selected aggregate uniformly (no piles) over the base coat until the floor is completely covered with a dry layer of aggregate. When the base coat has cured sufficiently to allow walking on it, broom off all excess aggregate and apply a second coat of 440LV. This process produces a 1/16th inch (62.5 mil) overlay.

OVERLAYS - V-GARD

Combine 1.5-gallon (5.7 L) mixed epoxy with 32 lbs. (14.5 kg) of 440LV Admix and mix thoroughly (1 Batch). Apply using notched trowel or gauge rake at 3/16th inch to 1/4 inch thickness (33 sf/3.1 sm to 24.75 sf/2.3 sm). Broadcast selected aggregate to saturation over the wet epoxy (approximately 35-40 lbs. (16-18 kg) per batch).

Coating

Typical coverage: 140 sq. ft./gallon (3.3 m²/L) as a coating @ 10 mils

Curing

Initial cure is 12 hours @ 70°F (21°C). Final cure is 36 hours @ 70°F (21°C).

Cleaning

Prior to curing, 440LV Epoxy may be removed from tools and equipment using N1 SOLVENT, xylene, or MEK.

Colors

Clear or Medium gray (typically using color additive). Other color additives available (special order)

VOC content

0.0 g/L. Complies with USA and Federal AIM VOC standards.

Refer to Safety Data Sheets prior to use

MORTAR - V-STONE

Combine 22 fl. oz. part B (.7L) with 44 fl. oz. part A (1.3L) mixed epoxy with 32 lbs. (14.5 kg) 440LV Admix (1 Batch) and mix thoroughly to make a stiff repair mortar. Coverage: Approximately 16 sf/1.44 sm at 1/4"/.625 cm.

LIMITED WARRANTY

Vantek warrants for a period of one (1) year that its products will be free of manufacturing defects and will be in conformity with published specifications when handled, stored, mixed, and applied in accordance with recommendations of Vantek. If any product fails to meet this warranty, the liability of Vantek will be limited to replacement of any non-conforming material if notice of such non-conformity is given to Vantek within (1) one year of delivery of materials. Vantek may in its discretion refund the price received by Vantek in lieu of replacing the material. No customer, distributor, or representative of Vantek is authorized to change or modify the published specifications of this warranty in any way. No one is authorized to make oral warranties on behalf of Vantek. In order to obtain replacement or refund the customer must provide written notice containing full details of the non-conformity. Vantek reserves the right to inspect the non-conforming material prior to replacement. EXCEPT FOR THE EXPRESSED WARRANTY STATED ABOVE, THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE. VANTEK'S OBLIGATION SHALL NOT EXTEND BEYOND THE OBLIGATIONS EXPRESSLY UNDERTAKEN ABOVE AND VANTEK SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO THE PURCHASER OR ANY THIRD PARTY FOR ANY LOSS, COST, EXPENSE, DAMAGE OR LIABILITY, WHETHER DIRECT OR INDIRECT, OR FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.