



V-STONE EPOXY MORTAR

TROWEL APPLIED EPOXY MORTAR WITH VERTICAL STABILITY

PRODUCT DESCRIPTION

V-STONE EPOXY MORTAR is a high-strength, non-slump epoxy mortar designed for one-step concrete repair. It is produced by combining a **0.5 gallon unit of 440LV EPOXY with 32 lbs. of TROWELGRADE AGGREGATE**, creating a durable, trowel applied mortar with good vertical stability. V-STONE offers long-term performance comparable to the V-GARD system and is engineered for demanding environments requiring superior hardness and chemical resistance. V-STONE is self-priming. For best results, prime substrate with straight 440LV EPOXY liquids before application.

INDUSTRY USE

- One-step repair of damaged or deteriorated concrete surfaces
- Vertical and horizontal repairs requiring a stiff, non-slump mortar
- Agricultural and industrial environments exposed to heavy traffic
- Areas exposed to corrosive agents, including sulfuric acid around wet/dry feeders
- Applications requiring long term durability similar to V-GARD

COVERAGE

V-STONE MORTAR: Approx. 0.45ft³/Batch
16ft²/1.49 m² at 1/4" (.64 cm)

440LV EPOXY Priming Liquids: 1.5-gal unit covers approximately
120ft²/11.15m² (typically enough for 6-8 batches of V-STONE MORTAR)

TECHNICAL DATA

LABORATORY TESTS	RESULTS
Mix Ratio (Epoxy Liquids)	2:1 by Volume
Pot Life	20 Minutes
Tack Free to Touch @ 72°F	4-6 Hours
Initial Cure	24 Hours
Final Cure	7 Days

BENEFITS & FEATURES

- Stiff, non-slump epoxy mortar for structural concrete repair
- Formulated from 440LV EPOXY and TROWELGRADE AGGREGATE for consistent performance
- Vertical stability similar to V-KRETE
- Superior hardness and chemical resistance
- Recommended priming with 440LV EPOXY Liquids for optimum bond

KIT PACKAGING

V-STONE EPOXY MORTAR KIT
Pre-measured 0.5-Gal unit of 440LV EPOXY & 32 Lb bag TROWELGRADE AGGREGATE placed in pail. (#VTK3004) 24/pallet

BULK PACKAGING

15-gallon 440LV EPOXY (57 L) unit; (3) 5-gallon pails (#VTK3002) - makes 28 V-STONE batches
32 lb. (14.5 kg) bag TROWELGRADE AGGREGATE (#VTK3020) ordered separately

OPTIONAL PRIMING LIQUIDS

440LV EPOXY 1.5-Gal unit (#VTK3001) 60/pallet

LIMITATIONS/WARNINGS

Apply only when the surface and ambient temperature is 50°F (10°C) and rising.

Do not over mix or retemper. Apply to a dry, or 440LV EPOXY primed substrate.

Avoid exposing material to high or freezing temperatures. Store in cool, dry, interior area, at ambient temperatures.

Always wear protective clothing, goggles, and impervious gloves. For industrial use only. Keep out of reach of children.



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SURFACE PREPARATION

Concrete must be sound and fully cured (28 days). Remove all unsound concrete, laitance, oil, grease, curing compounds and other contaminants that could prevent adequate bond. USE PREP & ETCH to clean surface - mix 1 part acid to 1 part water. Rinse thoroughly using clean water. Remove excess water and allow to dry.

NOTE: Concrete substrate should be COMPLETELY dry before application. Substrate temperature must be greater than 50°F (10°C) and remain so during cure time.

Before mixing, bring all materials, including the TROWELGRADE AGGREGATE, to a temperature between 65°F and 80°F (18°C to 27°C). This ensures proper working time and easier installation.

PRIMER APPLICATION (440LV EPOXY)

Step 1: Prepare Priming Liquids

- From pre-measured 1.5-Gal 440LV EPOXY Units (#VTK3001),
- Combine Part A and Part B into a 3-gal or 5-gal pail

Step 2: Primer Mixing Instructions

- Mix for 2 minutes at low to medium speed (400-1000 rpm) using a 4" SPIRAL PROP MIXER (#VTK9000) or equivalent with a variable-speed drill. Scrape the sides and bottom of the pail while mixing. No induction time is required. Proper mixing is critical for full cure and performance.

Step 3: Apply the Primer

- Roll coat apply mixed epoxy to application zones using a 9" or 4" roller cover. For tight to reach or spalled areas, use a 3" or 4" wide disposable paint brush.
- Important: Prime only enough area that the V-STONE MORTAR can be applied while primer is wet/tacky (1-2 hours).

NOTE: For vertical applications allow the primer to become tacky prior to applying mortar or use 880HV WALL EPOXY as primer.

Prime Coverage:

- Typical coverage of 1.5-Gal of 440LV EPOXY Priming Liquids is 120ft² (6-8 V-STONE batches applied at 1/4" thick). *Coverage of each V-STONE batch varies depending on applied thickness.

V-STONE MORTAR MIXING

Step 1: Prepare Batch Liquids

When using V-STONE EPOXY MORTAR KIT (#VTK3004):

- Combine pre-measured Part A & Part B Epoxy Liquids into a 5-Gal Pail.
- Mix liquids for 1 minute.
- Gradually add 32 lb. bag of TROWELGRADE AGGREGATE while continuing to mix. Increase mixing speed and blend thoroughly until uniform with no clumps.

When using bulk components:

- Pre-measure 44oz of Part "A" Resin. Pre-measure 22oz of Part "B" Hardener.
- Combine into 5-Gal Pail and mix liquids for 1 minute.
- Gradually add one 32 lb. bag of TROWELGRADE AGGREGATE while mixing. Increase mixing speed and blend thoroughly until uniform with no clumps.

APPLICATION OF V-STONE MORTAR

Apply mortar by trowel onto a dry, or 440LV EPOXY primed substrate. Minimum thickness: 1/4" (.64 cm) can be applied thicker if needed. Compact and smooth the mortar by applying firm pressure with the trowel within the working time. To keep tools clean and workable, periodically wipe and lubricate trowels with N1 SOLVENT (#VTK3014) during application. DO NOT use Paint thinner, Acetone, or Lacquer Thinner.

CLEAN UP

Clean up immediately with N1 SOLVENT (#VTK3014). Remove from skin while still wet. Scrub skin with soap and detergent.

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.