



V-STONE APPLICATION GUIDE

V-STONE Epoxy Mortar is a very long-lasting repair mortar as it has the hardness and durability to withstand heavy pig traffic and the chemical resistance to not be affected by sulfuric acid found around wet/dry feeders. It uses the same 440LV epoxy resins that are used in the slurry applied V-GARD system. V-STONE is a stiff mix (similar to the water-based V-STONE mortar) that is used to resurface rough concrete and re-build severely worn slats. A heavy duty drill is required for thorough mixing.

SURFACE PREPARATION

Clean the substrate by pressure washing. Use a leaf blower or wet/dry vacuum to remove excess water.

Etch the substrate using VANTEK PREP & ETCH (1 part acid and 2 parts water) or MURIATIC acid (1 part acid to 3 parts water). PREP & ETCH is less volatile so it is safer to work with around people and animals. A visual etch is necessary

- Apply using acid resistant sprayers or plastic sprinkling cans (used for gardening)
- If using sprinkling cans, use a floor (stiff bristles) broom to uniformly spread the acid
- Allow the acid to work for 10 - 15 minutes or until the fizzing stops
- Thoroughly rinse the surface with water
- Remove excess water from the cracks and low spots using a wet/dry vacuum or leaf blower
- As this is an epoxy application, **allow the substrate to dry** (if time is short, a weed burner can be used to hasten drying)

MIXING 440LV EPOXY FOR PRIMING

For Large* Repair Zones

- Mix .5 gallons Part B Resin with 1-gallon Part A Resin. Thoroughly mix for 1 - 2 minutes using a 4" diameter spiral prop mixer attached to a variable speed drill.
- Suggestion: If using 15-gallon units that consist of two 5-gallon pails of Part A Resin and one 5-gallon pail of Part B Hardener purchase some plastic 1-gallon pitchers or flexible 5 qt. measuring pails to decant the resins from the pails into. Then use these containers to pour resins into the actual Part A and Part B measuring pails. This process is much easier than pouring from the 5-gallon buckets.
- Once the epoxy is mixed, it is taken to the application zones.
- Roll coat apply the primer using a 9" non-shed epoxy roller cover working from paint pans. 4" non-shed epoxy roller covers work for tighter areas.
- Use disposable 2" to 4" paint brushes to reach tight areas.
- Note: Brushes and rollers can be periodically rinsed in N1 Solvent or Xylol to keep them from stiffening up from epoxy curing. Just remove or roll out excess solvent before using again.
- Prime only enough area that the V-STONE epoxy mortar can be applied to within several hours.

*For small repair zones: mix small batches or one .5 gal kit of epoxy liquids.

MIXING 440LV EPOXY AND ADMIX

Start with Small Batches

- Mix 22 Fl. Oz. Part B Resin with 44 Fl. Oz. Part A Resin. Thoroughly mix for 1 - 2 minutes using a 4" diameter spiral prop mixer attached to a heavy duty variable speed drill.
- Suggestion: If using 15-gallon units that consist of two 5-gallon pails of Part A Resin and one 5-gallon pail of Part B Hardener purchase some plastic 1-gallon pitchers or flexible 5 qt. measuring pails to decant the resins from the pails into. Then use these containers to pour resins into the actual Part A and Part B measuring pails. This process is much easier than pouring from the 5-gallon buckets.
- Once the epoxy is mixed, slowly add 32 lbs. of ADMIX and mix thoroughly.
- Take the mortar to the application area and place it in a mud tray for easy access. Working from 5-gallon pails is more difficult.
- Using flat finishing trowels (3" or 4" wide by 12" to 14" long trowels work good) or margin trowels uniformly and loosely place the mortar over the substrate.
- Once the mortar is loosely placed, lubricate the finishing trowel with solvent and compact and smooth the epoxy mortar by applying some pressure on the trowel.
- Note: Have a small container (1-gallon pail) with some solvent and a rag handy to keep trowels lubricated and cleaned.
- Allow the epoxy to cure 12 - 24 hours.



BASIC MIX GUIDE

440LV EPOXY PRIMER & V-STONE MORTAR

PRIMER MIX (Large Zones*)

.5-GALLON PART B

+

1-GALLON PART A

*Small Zones (Mix one .5 gal kit of liquids and prime the repair zone)

- Mix Thoroughly with Prop Mixer
- Pour this mix onto the repair zone, roll-coat or brush apply for uniformity
- Clean Mixer, Pails, and Tools with N1 SOLVENT or XYLOL



BASIC MIX GUIDE

440LV EPOXY PRIMER & V-STONE MORTAR

MORTAR MIX

.22 FL. OZ. PART B

+

.44 FL. OZ. PART A

- Mix Thoroughly with Prop Mixer

+

32 LBS. ADMIX Aggregate

- Mix Thoroughly with Prop Mixer (use a heavy duty drill)
 - Trowel apply this mix onto the **primed** repair zone
- Clean Mixer, Pails, and Tools with N1 SOLVENT or Xylol