

VANTEK crp

Concrete Restoration & Protection

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V-GARD 440LV EPOXY SLAT and FLOOR RESTORATION GUIDE

Eroded slats around wet/dry and even dry feeders deteriorate in wet conditions due to acid development in the zone. Pig traffic further wears down deteriorating concrete creating rough zones that hard on pigs feet and legs

The wearing process can be stopped and/or protected for many years using the V-GARD Epoxy Overlay System. V-GARD has been proven to outlast many common products used for this application. Following is the process.

Surface Preparation

Clean the repair zone 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. Contact Vantek crp for availability.

- Apply using acid resistant sprayers or plastic sprinkling cans (used for gardening)
- If using sprinkling cans, use a brush or floor 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 to remove acid and residue
- Remove excess water from the surface using a wet/dry vacuum or leaf blower
- At this point pre-patch extremely worn zones with V-KRETE REPAIR MORTAR.
- As this is an epoxy application, **allow the substrate to dry** (if time is short, a weed burner can be used to hasten drying, but not for the V-KRETE repairs.)

Mixing the V-GARD SLURRY EPOXY OVERLAY

Start with Small Batches – Larger Batches can be made using the same mix ratios once the applicators learn the process and know how many cracks need to be filled.

- Mix .5-gallon Part B Resin with 1-gallon Part A Resin. Thoroughly and slowly mix for 1 – 2 minutes using a 4" diameter spiral prop mixer attached to a variable speed drill.



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- 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 the selected containers. 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 the 32 lb. bag of VANTEK ADMIX while continuing to mix the batch.
- Transfer the mixed slurry to pitchers or flexible containers to pour the slurry over the surface as a bead. Pour out the entire contents of the slurry as soon as possible to prevent the epoxy from heating up in the transfer containers.
- Using notched trowels (5/16th inch notches are good as they will help the applicator control the thickness of the overlay. Just tilt the trowel to obtain the desired thickness. Use a flat trowel along the side of the slat to minimize the slurry from flowing over the edges. On large floors use squeegees to spread the slurry to desired thickness. Coverage: 30 sq. ft. per batch at 3/16" thickness.
- Note if slats have deep wear zones or severely eroded edges, fill the deep zones, and restore the edges just after the etch and rinse process using V-KRETE repair mortar. Be sure to apply a broom or textured finish to enable the epoxy to bond permanently to the V-KRETE on the next day.
- Finally uniformly broadcast ADMIX or BROADCAST aggregate over the surface to create a non-slip surface. Broadcast to saturation (surface looks dry). Before leaving, check to make sure the broadcast has not settled enough to create shiny spots.
- Clean tools and equipment as the application proceeds and at the end of the process with N1 SOLVENT or Xylol. Just add some solvent to small 1-gallon containers and use cloth rags for periodic cleaning.
- Allow the epoxy to cure 12 – 24 hours.

See Basic Guide Below that can be posted at the mix station



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V-GARD
440LV EPOXY
SLURRY OVERLAY

BASIC MIX

.5-GALLON PART B

+

1-GALLON PART A

+

32 LBS. ADMIX

- Mix Thoroughly with Prop Mixer
- Pour this mix onto slats and floors, spread, then broadcast aggregate until the surface looks dry
- Clean Mixer, Pails, and Tools with N1 SOLVENT or XYLOL



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