VANTEK crp

Concrete Restoration & Protection

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V-GARD CSS SYSTEM
SLAT and FLOOR 'SLIGHT' WEAR PROTECTION GUIDE

Slight wear on slats and floors of 1/16th to 1/8th inch will continue to deteriorate without protection creating a very rough surface that will require a thick overlay to restore.

The deterioration process can be stopped for a long time using thickened 440LV Epoxy followed by Natural Broadcast Aggregate. Following is the process.

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.

- 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
- Remove excess water from the surface 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 Thickened 440LV Epoxy

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 1 qt. Part B Resin with 2 qts. 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, add about 1.5 qts. (by volume) of Fumed Silica (usually this is packaged in a white 1-gallon pail for smaller projects…for large projects it is available in 20 or 22 lb. bags). Fumed Silica is light and dusty so avoid breathing or letting the dust get near the applicators eyes. Stir in the Fumed Silica to create a uniform thickened mix.
- Pour the thickened 440LV Epoxy into the substrate as a bead. Then roll the liquid epoxy with shed resistant roller covers until it is level with the surface (top of the rocks that are showing). 9" (floors or pads) or 4" (on slats) rollers work well. Typical Coverage: About 30-60 sq. ft. per batch (depending on the thickness).
- Finally uniformly broadcast ADMIX or BROADCAST aggregate over the surface to create a non-slip surface. Broadcast to saturation (surface looks dry)
- Allow the epoxy to cure 12 – 24 hours.

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

THICKENED 440LV EPOXY

BASIC MIX – SMALL BATCH (Large Batch)

1 QT. (.5- GALLON) PART B

+

2 QTS. (1-GALLON) PART A

+

1.5 QTS. (.75 – 1-GALLON) FUMED SILICA Powder

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

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50 West Stoever Ave. • Myerstown, PA 17067
1-800-845-3374 • www.farmerboyag.com