

## APPLICATION INSTRUCTIONS: STATREZ PC 225C SYSTEM

### MOISTURE VAPOR EMISSION TESTING

All interior concrete floors are subject to possible moisture vapor emission and/or excessive alkalinity that could ultimately cause coating failure. Prior to application, calcium chloride testing in accordance with ASTM F 1869 and/or relative humidity probe testing in accordance with ASTM F 2170 should be performed. In the event that tests result in readings of  $\geq 3$  lbs per 1000 sq. ft. per 24 hours, or  $\geq 75\%$  relative humidity, please refer to Arizona Polymer Flooring VaporSolve® product information or go to [www.vaporsolve.com](http://www.vaporsolve.com).

### SURFACE PREPARATION

Concrete must be cured 30 days and be clean, dry and structurally sound. Surface must be shot blasted or diamond ground to achieve an ICRI profile of SCP3 or greater. A properly prepared surface will have the texture of 80-100 grit sandpaper. If the surface is diamond ground, use 20-30 grit diamonds and vacuum the floor twice to remove concrete dust. Excessive dust in the pores of the concrete can compromise adhesion. Adhere strictly to guidelines listed in the Arizona Polymer Flooring Surface Preparation Manual. Previously coated surfaces must be mechanically cleaned and abraded with 80-100 mesh sandpaper prior to application.

### APPLICATION OF EPOXY 400 ISOLATION COAT

Mix only the amount of material that can be spread during the pot life of the product – 35 minutes for regular cure and 15 minutes for fast cure. Mix the Part A well before adding Part B. Mix 2 Parts A – 1 Part B. Stir well for 2 minutes using a low-speed drill with a Jiffy type mixer.

Recommended coverage rate is 160 sq. ft. per gallon. Pour the mixed material immediately onto the floor in strips. Brush trim the edges and spread the material with a notched trowel or squeegee, followed by backrolling with a 3/8" nap roller. The mechanics performing the rolling should wear spiked shoes to walk onto the wet coating and backroll well for even distribution.

### ELECTRICAL GROUNDING

It is required that the StatRez 150 be applied in direct, uninterrupted contact with properly prepared grounding points. Metal floor joints, metal equipment bases and steel columns or posts may be used if they have been electrically tested to confirm permanent continuity with an earth ground. Generally, a minimum of one grounding point per every 1000 square feet of flooring is sufficient for proper dissipation of static electricity.

Adhesive-backed copper grounding tape is used as a grounding point. Copper tape can also be used to bridge control joints around columns or different concrete slabs. Copper tape and the StatRez 150/StatRez 225 cannot be expected to maintain integrity over expansion joints that experience wide movement.

Methods of installation include the following techniques:

1. Use the copper tape to make an electrical connection with the green wire or grounding portion of an electrical outlet. A 4-inch (10.2 cm) portion of the copper tape is adhered to the cured Epoxy 400 Isolation coat. Run the remaining tape up the wall and attach it to the electrical outlet.

A variation of this technique involves dropping a No. 10 or 12 copper wire inside the wall from any convenient ground bus so that the wire emerges at the floor/wall junction. At this point, a small hole cut into the drywall or chipped out of the concrete should allow the copper wire to emerge. The copper grounding strip is intertwined with, or soldered to, the stranded copper wire. If intertwined, use a conductive adhesive tape to secure the copper tape with the copper wire. Insert the connection of the copper tape and wire into the wall. The balance of the grounding strip, typically 4 inches (10.2 cm), is then adhered to the floor.

2. The copper tape can be used to make ground connections with steel columns. The copper tape is adhered to the floor and run up onto the lightly sanded steel column or base. Drill and tap a hole into the steel column or base, and then secure the copper tape using a machine screw and washer.

#### **APPLICATION OF STATREZ 150 CONDUCTIVE PRIMER**

StatRez 150 should be applied after the Epoxy 400 Isolation coat has cured overnight. If more than 24 hours elapses between coats, abrade the surface with 80-120 grit sandpaper or screen disk before proceeding to ensure inter-coat adhesion.

Mix only the amount of material that can be spread during the pot life of the product – 3-4 hours. StatRez 150 is supplied in pre-measured kits. **Do not split kit.** Mix Part A well, bringing settled pigments up from bottom of container before adding Part B and water. Add Part B to the container containing Part A. Mix carefully for 2 full minutes using a low-speed drill with Jiffy type mixer, scraping the bottom and sides of the mixing vessel. Then, add 1 quart of water for a 1.5-gallon unit or 2 quarts of water for a 3-gallon unit and mix for an additional 2 minutes until completely uniform.

**Do not over or under thin with water, as it will adversely affect the conductivity.**

Coverage rate is 250-300 sq. ft. per gallon. Apply using a bristle brush and non-shedding medium nap roller. Do brush work first, taking care to feather out the edges. When rolling material, pour a workable amount from the bucket onto the surface and disperse evenly with the roller, taking care to smooth out ridges. Rolling once side-to-side and once up-and-down is suggested.

#### **APPLICATION OF STATREZ 225**

StatRez 225 should be applied after the StatRez 150 Conductive Primer has cured overnight. If more than 48 hours elapses between coats, lightly abrade the surface with 80-120 grit sandpaper or screen disk before proceeding to ensure intercoat adhesion.

Mix only the amount of material that can be spread during the pot life of the product – 30 minutes. StatRez 225 is supplied in pre-measured kits. **Do not split kit.** Mix Part A well, bringing settled pigments up from bottom of container before adding Part B and Part C. Add Part B to the container containing Part A. Mix carefully for 2 full minutes using a low speed drill with Jiffy type mixer, scraping the bottom and sides of the mixing vessel. Then, add Part C Colorpack and mix for an additional 2 minutes until completely uniform.

Coverage rate is 250-275 sq. ft. per gallon. Pour the mixed material immediately onto the floor in strips. Brush trim the edges and spread the material with a notched squeegee, followed by backrolling with a 3/8" nap roller. **Do not thin.** Addition of thinners will void manufacturer's warranty.

Allow first coat of StatRez 225 to cure a minimum of 12 hours to a maximum of 24 hours and apply a second coat using the same technique as the first. If more than 24 hours elapses between coats, lightly abrade the surface with 80-120 grit sandpaper or screen disk before proceeding to ensure intercoat adhesion.