APPLICATION INSTRUCTIONS

4400 Staticide® ESD Polycoat Floor Coating

Specifications:	
Base	Waterborne polyurethane
Surface	Egg shell to satin
Resistance	1 x 10e5 – 1 x 10e8 ohms
VOC	Zero
Compliancy	No REACH SvHC or RoHS chemicals
Durability	Enhanced with reinforcing fibers
Mixing	Easy to mix with no drips
Reducer for spraying	Deionized water

Recommendations before beginning:

- Read this entire document before application.
- Always wear protective goggles and gloves.
- Apply a test patch of the 4400 Staticide ESD Polycoat paint for adhesion, abrasion, resistance and aesthetics prior to coating large areas.
- Average coverage: 200-250 sq. ft. per gallon
- For best results, apply at temperatures between 60°F-80°F.
- Mix products thoroughly before using as solids may settle in storage. Fibers are noticeable in wet mixture but will be absorbed into the coating as the coating dries. Stirring with a paint stick my not be adequate for mixing solids into solution. Mixing with a drill attachment is recommended.
- Two coats are not required, but may be preferred as substrate absorbency varies.

NEW CONCRETE FLOORS

New concrete should cure for a minimum of thirty days before coating with product.

1. Clean and remove dirt/grease with diluted **4040 Staticide Cleaner Concentrate** solution. Dilute 5:1 (water to concentrate). Scrub with auto scrubber with stripping pad or a stiff bristle broom brush. Do not use solvents or solvent based cleaners.

2. Rinse twice with water. Residual acid, stripper or detergent will detrimentally affect the paint adhesion.

3. Test with litmus paper to ensure all the acid is removed and the floor has a neutral pH. Allow to dry 24 hours.

4. Determine porosity of floor using Porosity Test found on page 3 of this manual. Very dense, non-porous or treated concrete may require additional acid treatment.

5. Thoroughly mix paint with mixer or stirrer. This will ensure that the conductive additives are properly dispersed, allowing for proper adhesion and conductivity.

6. Pour a quantity of paint into a roller tray and completely wet the roller. A foam roller or ¼" nap polyester roller with a five-foot extension handle is recommended. Roller will depend on surface. Saturate roller completely and apply paint in continuous strokes to avoid fiber clumping.

7. Allow floor to dry overnight at not less than 60°F before allowing light foot traffic to resume on the surface.

8. After drying, test the floor with a surface resistivity meter. If the reading is greater than 10^8 ohms and/or the readings on five separate test spots on the floor differ by more than a decade, apply a second coat of paint.

9. Allow floor to dry 3 days (72 hours minimum) at not less than 60°F before allowing general industrial traffic to resume.

10. Allow floor to dry 3 days (72 hours minimum) at not less than 60°F if applying optional coat of ESD floor finish. ACL dissipative floor finishes will provide an increase in gloss and durability.

OLD CONCRETE FLOORS

NOTE Simple cleaning may be insufficient to obtain maximum adhesion of paint to old concrete floors. Prior maintenance and exposure to polyethylene wax, silicone, epoxy sealers, oil spills and other coatings or chemicals will adversely affect product performance.

1. Follow steps #1 – #4 listed above.

2. Apply a test patch. If the test patch is acceptable, follow the instructions under "NEW CONCRETE FLOORS" starting at step #5.

3. If the test patch shows unacceptable adhesion after standing five days, proceed with the following:

   a. Grit sand the concrete to remove all embedded sealers, waxes, floor polishes, oils, greases, fluids, and chemical spills of any type.

   * NOTE* Consult your concrete contractor for details on proper equipment for floor sanding.

   b. After sanding, wash the floor with detergent and warm water then wet vacuum.

   c. Allow the floor to dry completely.

   d. Apply another test patch. If adhesion, abrasion, resistance and aesthetics are acceptable, follow the instructions under "NEW CONCRETE FLOORS" starting at step #5.

Porosity Test: Pour one ounce of water onto the concrete. If the water soaks in, the surface is porous enough for coating. If water beads up on the concrete, the surface is not porous and further treatment is required. The presence of laitance (fine white particles) will also require abrasive blasting, sanding or abrading to assure removal.

Dryness Test: Place a weighted rubber mat, piece of plastic sheet or other non-porous material on the surface for 24 hours. If the underside of the mat, plastic or concrete surface is dry after that time, then the floor is ready for the next step. If moisture persists, concrete surface cannot be coated.

REGULAR MAINTENANCE

1. Allow 2 weeks of drying time after initial paint application before using a damp mop to clean coated floor.

2. Sweep or dust mop daily. Use sweeper, vacuum, or an untreated mop to clean the floor.
   Do not use a sweeping compound.

3. Damp mop weekly.

4. Remove all spills immediately.

5. Do not machine buff floor. Do not use abrasive cleaners or scrubbing machines with abrasive pads to clean the painted floor.

4400 Staticide® Premium Polyurethane ESD Coating may be touched up any time with additional coats.

FINAL NOTE

It is crucial to begin a program of taking regular readings of surface resistance from appropriate test sites to evaluate the floor and establish a proper maintenance program tailored to your requirements. All surface resistivity readings should be taken when the floor is at room temperature and dry. In order to conform to ANSI/EOS specifications and standards, use a resistance meter and procedure that measures relative humidity, temperature, and surface resistance such as the ACL 800 or ACL 880.