

## APPLICATION INSTRUCTIONS

### 5700 Staticide® Premium ESD Paint



#### Recommendations before beginning:

- Read this entire document before application.
- Always wear protective goggles.
- Apply a test patch of the ESD paint for adhesion, abrasion, resistivity and aesthetics prior to coating large areas.
- Average Coverage: 250-300 sq. ft. per gallon
- Mix product thoroughly before using.
- Two coats are not required, but may be preferred.

#### NEW CONCRETE FLOORS

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

1. Clean and remove dirt/grease with detergent solution followed by a clean water rinse.
2. Remove any concrete sealers.
3. Rinse twice with tepid water.
4. Test with litmus paper to make sure the floor has a neutral pH. Allow to dry 24 hours.
5. 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.
6. Paint should be tested for compatibility for primers and sealers before using.
7. Do not apply paint if room and floor temperature is less than 60°F.
8. Thoroughly mix paint with mixer or stirrer. This will ensure that the conductive additives are properly dispersed, allowing for proper adhesion and conductivity.
9. Pour a quantity of paint in a roller tray and completely wet the roller. A ¾" cotton or polyester nap roller with a five foot extension handle is recommended. Apply paint in continuous strokes assuring complete coverage.
10. Use a china white, nylon, or animal hair fine bristle brush to paint hard to reach areas and trim.
11. Allow floor to dry overnight at not less than 60°F before allowing light foot traffic to resume on the surface.
12. After drying, test the floor with a surface resistivity meter. If the reading is greater than 10<sup>8</sup> ohms per square and/or the readings on five separate test spots on the floor differ by more than a decade, apply a second coat of paint.

- 13. Allow floor to dry 3 days (72 hours minimum) at not less than 60°F before allowing general industrial traffic to resume.
- 14. Allow 2 weeks drying time of paint before using a damp mop to clean coated floor. Do not use abrasive cleaners or scrubbing machines to clean the floor. Use sweeper or vacuum to clean the floor.

**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. Clean and wash the floor. Apply a test patch. If the test patch is acceptable, follow the instructions under “NEW CONCRETE FLOORS” starting at step #5.
  - 2. If the test patch shows unacceptable adhesion after standing five days, proceed with the following:
    - a. Grit sand or solvent clean 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 #9.

**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 aggressive pads to clean the painted floor.

5700 Staticide® Premium ESD Paint may be touched up any time with additional coats.

To increase gloss and abrasion resistance, apply a top coat of Staticide® Acrylic or Staticide® Ultra Floor Finish.

### 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 850.

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