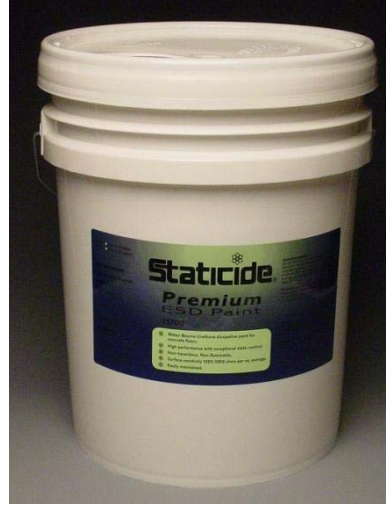
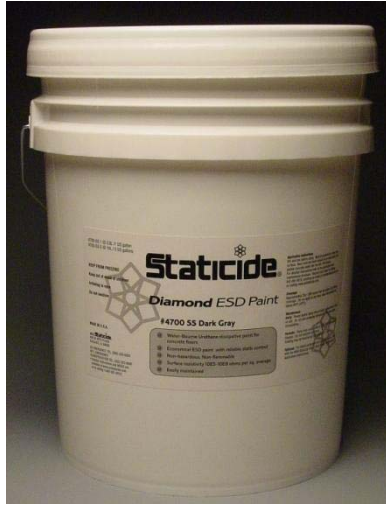


# APPLICATION INSTRUCTIONS

- **4700 Staticide® Diamond Polyurethane ESD Floor Coating**
- **5700 Staticide® Premium ESD Paint**

Average Coverage: 250-300 sq. ft. per gallon



## Recommendations before beginning:

- Read this entire document before application.
- Mix products thoroughly before using, including the ACL 10R Sealer /Primer.
- Always wear protective goggles.
- For best results apply sealer/primer and paint at temperatures between 60°F-80°F.
- Apply a test patch of floor sealer/primer and paint for adhesion, abrasion, resistivity and aesthetics prior to coating large areas.

**\*NOTE\*** In this document, the word “paint” refers to both the 4700 Staticide® Diamond Polyurethane ESD Floor Coating and the 5700 Staticide® Premium ESD Paint.

**NEW CONCRETE FLOORS**

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

1. Clean and remove dirt/grease with detergent solution followed by a clean water rinse.
2. Acid etch with muriatic acid following muriatic acid manufacturer's directions.
3. Rinse twice with warm water. Residual acid, stripper or detergent will detrimentally affect the paint adhesion.
4. Test with litmus paper to ensure all the acid is removed and 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. Using a ¼" fine roller, squeegee, or airless spraying equipment, apply one coat of ACL 10R Sealer/Primer until the surface is fully saturated. Do not flood coat the surface of the concrete. Remove all excess primer and trapped air by stroking applicator in tray before applying to surface. Apply the correct amount to the floor allowing the primer to be absorbed by the concrete.
7. Allow to dry for 2-4 hours. Check for dryness and adhesion. Use Dryness Test found on page 3 of this document.
8. After floor has dried, check room and floor temperature. Do not apply paint if room and floor temperature is less than 60°F.
9. Thoroughly mix paint with mixer or stirrer. This will ensure that the conductive additives are properly dispersed, allowing for proper adhesion and conductivity.
10. Pour a quantity of paint in a roller tray and completely wet the roller. A ¼" cotton or polyester nap roller with a five foot extension handle is recommended. Apply paint in continuous strokes assuring complete coverage.
11. Use a china white, nylon, or animal hair fine bristle brush to paint hard to reach areas and trim.
12. Allow floor to dry overnight at not less than 60°F before allowing light foot traffic to resume on the surface.
13. 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.
14. Allow floor to dry 3 days (72 hours minimum) at not less than 60°F before allowing general industrial traffic to resume.

**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 #6.
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. Apply sealer/primer (following instructions) or coat of paint.
  - 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
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1. Sweep or dust mop daily, using an untreated mop. Do not use a sweeping compound.
2. Damp mop weekly.
3. Remove all spills immediately.
4. Do not machine buff floor.

4700 Staticide® Diamond Polyurethane ESD Floor Coating and 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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