

# STATICIDE® DISSIPATIVE FLOOR FINISHES

## RECOMMENDED USE

ACL, Inc. created specially formulated ESD safe floor finishes for specific surfaces and environments:

4000 Staticide® Acrylic for non-sensitive device areas.

4600 Staticide® Ultra for sensitive device manufacturing or when longer strip cycles are desired.

4800 Staticide® Ultra II for unique industrial surfaces like **concrete, dissipative tiles, epoxy and dissipative epoxy.**

**AVERAGE COVERAGE 1500-2000 SQUARE FEET PER GALLON**

## FLOOR

Best results are obtained when Staticide® Floor Finishes are applied to surfaces which are 60° F or above and in relative humidity conditions between 30-50%. **WARNING:** When applying floor finishes or cleaners always set up a “wet floor sign” as good housekeeping practice.

1. Remove old finish using a 1:4 dilution of Staticide® Floor Stripper #4010 and water. Concentration of dilution depends on the number of coats previously on floor.
2. Vacuum up stripping solution.
3. Rinse floor thoroughly with clean water.
4. Inspect floor to confirm that all stripper has been removed (shiny spots versus dull spots). Any residual stripper will be detrimental to the performance of an ACL Floor Finish.

**NOTE: New tile floors must be stripped thoroughly to remove all floor coatings. ESD tiles have plasticizers that may require a higher concentrate of stripper to remove. DO NOT strip floor within the first 4 or 5 days after installation of a new tile floor.**

### General Preparation Tips:

- Strip less than 125 sq. ft. at a time. Strip wet.
- Let stripper soak for 5 minutes, however do not allow stripper to dry on floor.
- Flood rinse area twice with clean water to remove residual stripper.
- Floor needs to be completely dry before applying floor finish.
- If shiny spots or white powder appears after floor is dry, the floor needs to be re-stripped and re-rinsed.

## APPLYING STATICIDE® FLOOR FINISHES

Using a new rayon mop and clean pail, apply the chosen Staticide® Floor Finish as follows:

1. Apply a thin coat to floor (i.e.: wring out mop  $\frac{3}{4}$  ways down the wringer). Let floor dry to the touch, approximately **60 minutes** for an RH condition of <30%. **Drying times may vary slightly depending on ambient conditions.** For an RH between 30 – 50% or temperature < 70°F allow 1-2 hrs of dry time. For greater than 50% RH allow 2-3 hours of dry time.

**NOTE: Streaks, bubbles, flaking or softening may develop if floor finish is not applied correctly. For the formation of a uniform hard coating, it is critical to apply floor finish in thin coats to prevent moisture from becoming entrapped in the initial application.**

2. Apply a second, slightly thicker coat (i.e.: wring out mop  $\frac{1}{2}$  ways down wringer).

**If using 4000 or 4600:** Two thin coats are sufficient, but for optimal performance, longer life, and easier maintenance, three coats are recommended. If a 3<sup>rd</sup> coat is applied, wait **24 hours** before applying. This will allow the first two coats to cure. Applying coats too soon will result in poor adhesion, poor appearance, poor electrical performance, blistering and greasiness.

**If using 4800 Ultra II:** Two thin coats are the maximum requirement on dissipative surfaces. Applying too many coats or not allowing sufficient dry time will result in poor adhesion, poor appearance, poor electrical performance, blistering and greasiness.

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## General Application Tips:

- Designate a new rayon (finish) mop or microfiber mop for the maintenance of ESD area.
- To avoid contamination, use separate clean pails and mops for stripper and floor finish or use a plastic liner.
- Allow the floor to dry naturally, do not use forced air.
- Do not mix ESD floor finishes with one another or other non ESD floor finishes.

**NOTE: Normal traffic may resume in 6-8 hours (preferably overnight) after applying the last coat.**

## MAINTENANCE OF STATICIDE® FLOOR

A routine maintenance program will provide the most satisfactory gloss retention, electrical resistances and wear characteristics of Staticide Floor Finishes.

1. Floor surfaces should be swept with an untreated dry mop (do not use sweeping compound) daily to remove loose dirt and sand.
2. Floors can be cleaned weekly to remove dirt, salt and film deposits by one of the following methods:
  - For light mop cleaning: Damp mop with a 1 to 1 dilution of chosen Staticide® Floor Finish and cool water.
  - For heavy machine cleaning: **Auto Scrub** only when necessary with a 1 to 10 dilution of #4100 Restorer Cleaner and cool water. Keep pad pressure setting light and use a white 3M Pad. After scrubbing apply a thin coat of floor finish as per application instructions above.
3. Apply a full strength top coat every four to six weeks after cleaning. Allow the finish to dry for approximately 8-12 hours before resumption of foot traffic. It is recommended that no more than 10 interim coatings be applied before stripping. **Top Coat with the same finish as the base coat. Do not interchange the floor finishes.**

The frequency of stripping and refinishing will vary somewhat depending on the environmental conditions within a particular facility, but field experience indicates that monthly refinishing generally provides the best outcome.

## General Maintenance Tips:

- Do not introduce any foreign substances on top of floor finish, i.e. cleaners other than the diluted #4100 Restorer Cleaner (1:10).
- Designate a new rayon (finish) mop or microfiber mop for the maintenance of ESD area.
- **For optimal results, do not apply during humid conditions.**

## BUFFING WITH STATICIDE® FLOOR

Buffing is not required to maintain dissipative qualities in Staticide® Floor Finishes. However, if you choose to rejuvenate the appearance of the floor finish by **spray buffing**, use a 1:1 blend of floor finish and water using standard or high speed equipment with proper pads. After the floor dries, at least one hour, restore dissipative properties by applying a thin coat of the 1:1 blend of floor finish and water. Use the least aggressive pad possible. Use light pressure to avoid burnishing and finish removal.

### *FINAL NOTE*

It is crucial to begin a program of taking regular readings (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/ESDA specifications and standards use a resistance meter & procedure that measures Relative Humidity, Temperature, and Surface Resistance such as the ACL 800 megohmmeter.