



ElectraGuard ESD Epoxy Floor Paint

Installation Instructions for use over concrete

Release Date: 06/30/2022

What's in the pail: The ElectraGuard high gloss ESD floor paint system is a static dissipating coating. **The way it works:** Static electricity (typically generated as a by-product of movement) flows into the floor coating and is discharged into the electrical ground system of the facility.

Note: The following instructions shall be reviewed prior to installation. This document is the condensed version of the full instructions that cover the details for application to multiple subfloors that is [posted at this URL](#).

1. Basic Requirements: Flooring must be installed at the final stage in any type of construction. Area lighting and HVAC must be running and fully functional. The temperature of the building and concrete slab must exceed 60° F. Read, comprehend and follow the safety recommendations as reported in the SDS sheets for the materials that will be installed.

2. Receiving: Inspect inbound shipment and insure that the pails are intact and tightly sealed in the original containers clearly marked with ElectraGuard by United Static Control. If the shipment has been damaged in any way, take photos and report the damage to the driver or freight carrier immediately. Mark the damage on the bill of lading and contact United SCP's freight department immediately at 719 676 3928 extension 7001.

3. Inspection: The highest quality of materials and workmanship are employed in the manufacture of our materials and careful inspection is made prior to its shipment. It is the installer's responsibility to verify the accuracy of the order, insure the materials are checked for consistent dye lots, damage, defects and satisfactory color and that the bond strength of the product to the concrete subfloor is sufficient for the needs of their clientele.

4. Storage: Store the material indoors and in a climate controlled environment.

3. Moisture Testing of Concrete Slab: The ElectraGuard System has shown itself to be tolerant of high vapor emission from the concrete although excessive vapor emission may increase the conductivity of finished floor and its warranty. As such, prior to installation, test the concrete slab in accordance with ASTM D4263. This test involves taping an 18" x 18" polyethylene sheet to the concrete subfloor and then waiting at least 16 hours prior to collecting the results. Visible condensation on the sheet or darkening of the concrete indicates excessive moisture. Should the testing indicate excessive vapor emissions contact United Static Control Products.

4. Preparation of Concrete: The best adhesion is achieved by lightly diamond grinding the concrete to an SP-2 profile. As SP-2 profile is similar to the texture of the grooves on a phonograph record. The

second best method of preparing the concrete is to Diamabrush the concrete.

After the concrete has been sufficiently profiled, auto scrub or damp mop the concrete using ElectraClean diluted 8 ounces to a gallon of clean water. Be sure no dust or other contaminants remain on the subfloor. Allow the concrete to dry for at least 4 hours prior to proceeding.

5. Mock-up / Bond Strength Test: Mask an area approximately 2' x 2' using standard blue painters tape. Follow the instructions for performing this test that are [located here](#).

5. Masking: Mask walls and other encumbrances.

6. Repairing Concrete / Filling expansion Joints: Should this optional process be desirable follow the instructions for performing this procedure that are [located here](#).

7. Install Ground Straps: Install 2 each electrical grounds for floors under 3,000 SF and 1 additional ground every 3,000 SF thereafter. [This is the preferred method](#).

7. Application of ElectraGuard: Follow the instructions on the containers. Pour the premeasured container(s) of the catalyst into the container of base and thoroughly mix using a rotary paint mixer and an electric drill set to a spin at a medium to low RPM. Be sure to blend any solids at the bottom of the pail in with the ingredients in the base. Do not beat excessive air into the coating. Allow the mixture to react for approximately 5 to 10 minutes before application.

Apply the material using a 3/8" high quality paint roller in long continuous strokes assuring complete coverage. Do not apply pressure to the roller. Allow the weight of the roller to set the amount of paint that is applied. Use a fine bristle brush to paint hard to reach areas and cut-ins. Store wet paint rollers in an airtight trash bag for re-use the next day. Clean up or remove wet paint using warm water. [See section 6.8. All Substrates for tips in rolling this material](#)

Number of Coats: *For optimum wear resistance, apply a coat a day for 3 days, allowing the product to thoroughly dry between each coat. Dry time will vary depending on the humidity and temperature of the installation area. The warmer the area and the lower



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the humidity, the faster the coating will dry. Dry time may be sped up using air movers (48" fans). However, do not blow the air directly on the floor or the ceilings.

Sealing ElectraGuard ESD Epoxy: ElectraGuard ESD Epoxy may be sealed for ultimate shine and scuff resistance. **Note:** As applied, coatings of ElectraGuard provide optimum conductivity and a matte type (low glare) finish. Optimum wear performance, scuff resistance and a medium gloss is achieved via topical applications of 2 thin coats of ElectraThane.

ElectraThane application instructions: If needed thoroughly remove loose dirt and dust from the cured ElectraGuard via sweeping or vacuuming. Mop on thin even coats of ElectraThane using non linting synthetic finish mop, wax applicator or microfiber mop. Allow the coats of ElectraThane to dry (depending on humidity and temperature) for at least 90 minutes before application of next coat. Optimum GLOSS is obtained by mopping on one thin coat of ElectraGlaze over the ElectraThane. ElectraGlaze acts as a sacrificial coating. ElectraGlaze may be recoated without removal when needed.

.Move in Tips: Protect the floor during move in. Wear disposable shoe covers. Cover the flooring with Ram Board or Masonite sheet when moving in heavy items (especially with forklifts and man-lifts). Do not drag items such as benches and pallets across any type of ESD flooring. Place carpeted "clean off mats" in the doorways of the ESD area to remove contaminants from footwear and carts. Use carpeted mat that are long enough to take at least three steps on it prior to entering the ESD control area. Do not introduce water to any new ESD flooring for a period of at least 30 days after installation. Use new soft brooms, dust mops, damp mops, buckets and other cleaning tools dedicated for use on the ESD flooring only. Mark these items "for use in ESD area only."

Maintenance: Dry dust mop the floor on a daily basis. Use a floor magnate to pick up ferrous chips and other steel debris. Sweep the floor as needed using a soft (new) push broom and an oil-free sweeping compound that will leave no oily residues. In most cases, scuff marks may be easily removed from the top coat of AF-5500 by using ElectraShine and a high speed buffer equipped with a white or champagne colored pad. To auto scrub or damp mop, use a dilute solution of ElectraClean and water.

Testing: ElectraGuard meets ANSI ESD S20.20-2021, table 2. Personal Grounding Requirement Product Qualification and Compliance Verification. The most common test method for ESD flooring is

ANSI/ESD STMS7.1. Contact United for details should this be a requirement.

Disclaimer: Every effort has been made to provide accurate and reliable information in this document. However, United SCP cannot accept any responsibility for loss or damage that may result from the use of this information due to the possibility of variations of processing or working conditions and/or workmanship that is beyond our control. GP-5600 is not designed to encapsulate concrete. As such, dyes, markers, etc. may bleed through the coating and should be removed prior to installing the material.

Tech support is available 24/7 for our installers and customers by dialing 719 676 3928 and selecting option 8.

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