STATIC PRIMER

PRODUCT TECHNICAL DATA SHEET

PPC STATIC PRIMER is a two-component, water-based epoxy conductive coating engineered to create an effective ground plane for electrostatic conductive flooring systems. The complete system is designed to provide reliable static control when used in combination with ESD-compliant footwear, wheeled equipment, and chairs—helping to prevent the buildup of electrostatic charges on personnel through effective equipotential grounding. PPC Static Primer is formulated to work in conjunction with compatible topcoat systems such as PPC STATIC E300 NT to meet **ANSI S20.20 – 2014 Product Qualification and Performance Verification** requirements when used with ESD-compliant footwear. It also meets **DOD**, **MIL**, **NFPA**, and other relevant standards.

WHERE TO USE

- Electronics manufacturing and assembly areas
- Military, aerospace, and aircraft hangars
- Facilities with dust or explosion hazards
- Cleanroom environments
- Pharmaceutical production and processing facilities
- Data centers and server rooms
- Control rooms and command centers
- Medical device manufacturing
- Semiconductor fabrication plants
- Laboratories and testing facilities
- Telecommunication facilities
- Automotive electronics production
- Battery manufacturing and charging areas
- Printing facilities with flammable inks or solvents
- Packaging lines handling powders or fine particulates

ADVANTAGES

- Creates effective low-resistance ground plane for PPC Static ESD flooring systems.
- Improves adhesion between the substrate and topcoat, reducing the risk of peeling or delamination.
- Seals the surface to minimize moisture-related issues.
- Reduces pinholes and promotes a smoother, more uniform finish.
- Helps the ESD system meet industry standards, including **ANSI**, **DOD**, and **NFPA**.
- Enhances overall durability, electrical performance, and long-term protection of the flooring system.

PACKAGING & COLORS

Packaging: 1.5 gallon (5.7 L) & 3.0 gallon (11.35 L)
Color: Flat Black

MIX RATIO

Use only as complete mixed unit, do not break down into partial mixes.

SHELF LIFE AND STORAGE

12 months from date of manufacture, in original unopened container.
Store away from heat sources between 50oF and 85oF (10oC – 30oC).

RESTRICTIONS

- Before application, verify that ambient temperature and humidity are at least 5ºF above the dew point.
- Do not exceed the recommended maximum thickness during application, as this can lead to unacceptable resistance values.
- High humidity and/or low temperatures will extend the curing time.
- Not intended for use as a stand-alone coating. Must be top-coated with an appropriate **PPC Static** finish system.
- If sanding or abrading the surface is required, use caution and control dust — conductive dust can affect performance.

PHYSICAL/CHEMICAL CHARACTERISTICS

Mixing Ratio by Volume .....Mix Full Kits Only

VOC.....126 g/l

Solids Content, by Volume 38%

Surface Resistance (ANSI S7.1) .....<5,000 ohms

Pot Life (77°F/25°C) .....1 hour

Cure Times (77°F/25°C & 60% RH)

Dry to touch 2 Hours
Dry to finish coat 6

OVERVIEW OF INSTALLATION STEPS

Surface Preparation: Concrete must be cured 30 days and be clean, dry, and structur-ally sound. Surface must be shot blasted or diamond ground to achieve a minimum ICRI profile of CSP-3. Consult ICRI Technical Guidelines Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings, Polymer Overlays, and Concrete Re-pair for complete information. If the surface is diamond ground, use 20-30 grit diamonds and vacuum the floor to completely remove any concrete dust. Excessive dust in the pores of the concrete will compromise adhesion. Previously coated surfaces must be mechanically cleaned and abraded prior to application to achieve a clean, gloss-free and open texture.

Grounding: Before starting the application, identify and install grounding points following the recommended procedures. For additional guidance, consult **PPC Technical Service**.

Mixing: Mix Part A thoroughly, ensuring any settled material is fully incorporated from the bottom of the container. Add Part B into the container with Part A. Using a low-speed drill, mix for a minimum of 2 minutes, scraping the sides and bottom of the container to achieve a completely uniform blend.

Application:
Apply **PPC Static Primer** in a single coat at approximately 4–6 mils (265–400 sq. ft. per mixed gallon / 6.5–9.8 sq. m per liter). Use a 9- or 18-inch roller with a 1/4- or 3/8-inch quality solvent-resistant roller cover. Apply using the dip-and-roll method; squeegee application is not recommended. Maintain a consistent film thickness to achieve a uniform appearance. Do not exceed the recommended application thickness. Pay special attention to surface depressions where material may collect, as excess product can skin over and fail to cure properly.

Cleaning
ESD-Epoxy conductive and static-dissipative flooring systems require specific cleaning procedures to ensure that the flooring surface maintains the highest level of conductivity.

Sweep as necessary and dust mop with a quality micro- fiber type mop head. Frequent dust mopping will extend the life of the floor and permit the lowest resistance between the floor surface and ESD footwear, wheels, and casters.
Use only cleaning agents that leave no residue after rinsing. Mechanical scrubbers may be used with pads no more aggressive than 3M brand White Super Polish Pad 4100, or equal.
Never use wax, acrylic finishes, polishes, or other film- forming products. A properly cleaned ESD-Epoxy floor should never require additional ESD treatments. Beware of processes that may impart a non-conductive residue on the floor, such as adhesives and paint.

HEALTH AND SAFETY

Use only with adequate ventilation. Appropriate cartridge- type respirator must be used during application in confined areas. Avoid contact with skin; wear protective gloves. User must read and understand Safety Data Sheet before using.

LIMITATIONS:

- Electrical performance (surface resistance, resistance to ground, body-voltage generation) is a function of surface cleanliness, and the condition of ESD shoe grounders and footwear.
- PPC ESD systems applied direct to concrete are not intrinsically spark-proof (struck by metal) unless applied to a spark-proof substrate. Consult PPC Technical Service for specification spark-proof systems.
- Exterior applications will exhibit chalking, discoloration and fading
- Prior to application, measure and confirm that ambient temperature and humidity conditions are at least 5oF over dew point.
- Do not thin this product. Addition of thinners is not necessary and will void Manufacturer's warranty.

PPC warrants its products to be free of manufacturing defects and that they will meet PPC current published physical properties. PPC warrants that its products, when properly installed by a state licensed contractor according to PPC guide specifications and product data sheets over a sound, properly prepared substrate, will not fail for a period of 12 months. Seller's sole responsibility shall be to replace that portion of the product which proves to be defective. There are no other warranties by PPC of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. PPC shall not be liable for damages of any sort, including remote or consequential damages resulting from any claimed breach of any warranty whether expressed or implied. PPC shall not be responsible for use of this product in a manner to infringe on any patent held by others.

In addition, no warranty or guarantee is being issued with respect to appearance, color, fading, chalking, staining, shrinkage, peeling, normal wear and tear or improper application by the applicator. Damage caused by abuse, neglect and lack of proper maintenance, acts of nature and/or physical movement of the substrate or structural defects are also excluded from the limited warranty. PPC reserves the right to conduct performance tests on any material claimed to be defective prior to any repairs by owner, general contractor, or applicator.

DISCLAIMER

All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the users responsibility to satisfy himself, by his own information and test, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. We do not suggest or guarantee that any hazard listed herein are the only ones which may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether in writing or oral, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and PPC makes no claim that these tests or any other tests, accurately represent all environments. For further information please contact us at the following email address: orders@premierprotectivecoatings.com or visiting www.premierprotectivecoatings.com

DISPOSAL

Any surplus material, including both Part A and Part B components, should be combined and allowed to cure. Upon curing, the product can be disposed of without any restrictive conditions. Uncured materials should be securely stored in an appropriate sealed container and disposed of in strict adherence to the applicable provincial, state, municipal, and federal regulations.

CAUTION

ALWAYS KEEP OUT OF THE REACH OF CHILDREN
KEEP FROM FREEZING CONDITIONS INTENDED FOR INDUSTRIAL USE ONLY