

CPC ESD (ELECTRO STATIC DISSIPATIVE FLOORING)

PRODUCT DESCRIPTION

CPC ESD is a fluid-applied, high-build epoxy, monolithic flooring system, It is electrically active within a resistance range of one million (1E⁶) to one billion (1E⁹) ohms, as tested in accordance with ESD Association Standard 7.1.

FEATURES

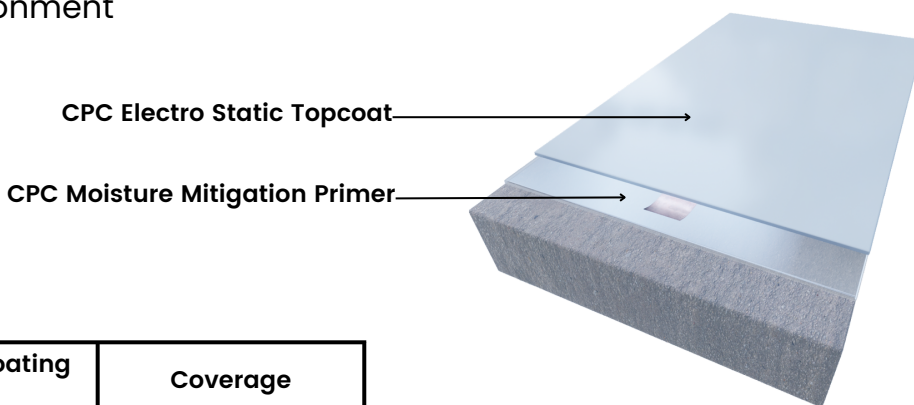
- Lower life cycle cost
- Protective Conductive flooring system
- Sanitary
- Excellent abrasion resistance
- Chemical resistant
- Monolithic, seamless
- More durable than tile or sheet goods when exposed to forklift traffic

TECHNICAL DATA

PHYSICALS	METHOD	RESULTS
VOC In g/l	EPA Method	< 5 g/L
Electrical Transmission Properties	ESD Static Dissipative (SD) 7.1	1E ⁶ – 1 E ⁹ ohms
Impact Resistance	ASTM D2794	Passes
Abrasion Resistance	ASTM D3060	60 mg
Hardness	ASTM D2240	90

TYPICAL USE SITES

- Clean Rooms
- Server Farms
- Defense and Aerospace
- Electronics Manufacturing / Assembly
- Any conductive sensitive environment



COVERAGE RATE

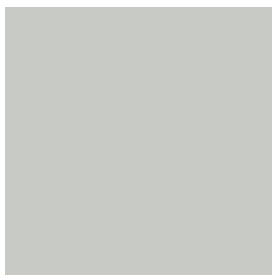
Product	Thickness of Coating Applied	Coverage
CPC Moisture Mitigation Primer	16 mils	100 sq ft / gal
CPC Pigmented Epoxy (Optional) Basecoat	10 - 16 mils	100 - 160 sq ft / gal
CPC ESD Topcoat	12 - 16 mils	100 -134 sq ft / gal

COLORS AND FINISH OPTIONS

Printed color charts approximate actual color. Final Color approval should be made from a physical sample. Final color appearance is affected by lighting, surface texture, and method of application. Custom colors are available by request.



402 - Dark Gray



413 - Speedway Gray



431 - Bright Gray

LIMITATIONS

- If sub-surface cracks move due to continued thermal flexing or mechanical loads or building settlement, CPC Electrostatic Conductive Flooring may reflect those cracks to some degree.
- Moisture vapor emission rates (MVER) in excess of 10 lbs/1000 sq/ft/per 24 hr period per ASTM F1869, or an RH in excess of 84% per ASTM F2170 requires the application of CPC Moisture Mitigation Primer. The actual colors can result in small deviations from the color chart due to the nature of the element that makes this Static Dissipative.

SURFACE PREPARATION

The surface must be structurally sound, clean, dry, and free of grease, paint, oil, dust, curing agents, laitance, or any foreign material that will prevent proper adhesion. Minimum (CSP) concrete surface profile CSP 2-3 is required as per ICRI's Technical Guideline No. 310.2R-2013. "Selecting and Specifying Concrete Surface Preparation." substrate conditions & coating requirements.

Apply CPC ESD directly over the previous coat within the recoat window of the material previously applied.

Prior to starting work, test the existing concrete slab for efflorescence, moisture, and hydrostatic pressure.

Inspect substrate to verify proper preparation before applying any materials.



TECHNICAL PRODUCT GUIDE

INSTALLATION GUIDELINE

	INSTALLATION METHOD	PRODUCT & MIX RATIOS	COVERAGE RATE PER USE GALLON (APPROXIMATE)
Step 1	Surface Preparation: Minimum surface profile of CSP 2-3		
Step 2	Apply CPC Moisture Mitigation Primer		
	Squeegee and back roll @ 16 mils WFT	Mix Ratio:* 2A:1B Recoat Time: 8-36 hours Pot Life: 25 minutes Cure Time: 8 hours *do not split kits	95 sq ft / Gal
Step 3	Provide grounding in accordance with ANSI ESD 6.1-2009		
Step 4	Apply CPC ElectroFlor CD undercoat		
	Backroll @ 4 mils WFT	Cure Time: 2 hours Recoat Window: 24-36hours	400 sq ft / Gal
Step 5	Mixing sequence of CPC ESD topcoat		
	Add all of C component slowly to the 5 gallon pail of A component and mix slowly for 60 seconds. Then add the B component and mix for 60 seconds. After all components are mixed, strain in a separate bucket before application.		
Step 6	Apply CPC ESD topcoat		
	Squeegee and backroll with 3/8" nap roller @ 12 - 16 mils WFT	Mix Ratio: 1A: 1B: 1C Pot Life: 35 minutes Cure Time: 8 - 12 hours Recoat Window: 18 -36 hours	100 - 133 sq ft / Gal
Step 7	Verify conductivity is within range of 250,000 (250E ⁴) to one million (1E ⁶) ohms, as tested in accordance with ESD Association Standard 7.1		



TECHNICAL PRODUCT GUIDE

ENVIRONMENTAL

All materials are mixed, applied and cured at the job site. Minimum environmental conditions are required to facilitate proper curing and performance of the products. Ensure conditions are in accordance with the following requirements.

AMBIENT	MINIMUM	MAXIMUM
Temperature	55°F	90°F
Relative Humidity	20% RH	90% RH
Wind	N/A	5 MPH
Substrate Temperature	55°F	85°F
Material Temperature	60°F	80°F

MATERIALS

Materials should be delivered in original packages and containers with seals unbroken and bearing manufacturer's labels containing brand name and directions for storage and mixing with other components. Check materials immediately upon receipt, verify all the correct materials in the correct packaging are accounted for in good condition. Sort the materials and store them in a tempered storage area.

NOTE

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