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TD.633 - TECHNICAL DATA: E100-PESD™ Electrostatic Dissipative Epoxy

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Product Description:

E100-PESDTM is a 100% solids, pigmented static dissipative epoxy floor coating that is self-priming and provides static dissipative properties ($1.0 \times 10^6 - 1.0 \times 10^9 \Omega$ /square (ohms)). E100-PESDTM provides an average of 5 V body voltage generation (tested wearing dissipative footwear). Relative indoor humidity is not a factor of ohm dissipative performance. Readings are consistent for the life of the floor. Unlike water-based ESD floors, which require increased maintenance, this floor coating was designed for heavy wear and chemical resistance requiring less maintenance.

Typical Uses:

- -Electronics assembly
- -Laboratories/clean rooms
- -Packaging lines
- -Pharmaceutical facilities
- -Surgical and radiology facilities
- -Warehouses and manufacturing

Key Features:

- -Low maintenance
- -Dissipates 5000 V charge in 0.01 seconds
- -100% solids (0% VOC)
- -Excellent wear and stain resistance
- -5 V Avg. BVG with dissipative footwear
- -If required, copper grounding strips may be used
- -USDA and CFIA compliant

Physical Properties		
Mix Ratio	•	2 to 1 by volume
Gel Time	ASTM C881	19 minutes
Colors		Light gray, medium gray, dark gray & tan. (custom colors available)
Consistency		Flowable
Compressive strength	ASTM D695	10,500 psi
Tensile strength	ASTM D638	3,200 psi
Flexural strength	ASTM D790	4,100 psi
Concrete bond strength	ASTM D4541	400 psi substrate fails
Water absorption (2-hour Boil)	ASTM D570	0.05%
Surface resistivity (meets ANSI/ESD S20.20)	ASTM D257	1.0 x 10 ⁶ to 1.0 x 10 ⁹ ohms
Static decay	Mil-STD 3010, Method 4046	0.01 seconds
Static generation	ANSI/ESDSTM 97.2	<25 V
With dissipative footwear	ANSI/ESDSTM 97.2	5 V
Slip resistance	ASTM F609	0.5 minimum
Coefficient of friction	ASTM D2047	0.5
Indentation	Mil D3134	0.27 max
Impact resistance	Mil D3134	Pass
Flame Spread/NFPA 101	ASTM E84	Class A
Hardness Shore D	ASTM D2240	74-80
VOC		0% VOC

Coverage:

- Minimum 2 coats at 160 ft²/gal each
- Thicker applications result in improved ESD readings
- Thoroughly mix Part A prior to adding Part B

Limitations:

- Colors do not match the E100 Series color chart due to the conductive additive that darkens the color.
- Recommended application temperatures are 68°F to 88°F / 20° C to 31° C, to ensure proper flow and leveling.
- Top coating with any other top coat or wax will render the static dissipative properties ineffective.
- Product is not intended for munitions or explosive manufacturing and storage facilities.

Available Packaging: 3 gal & 15 gal kits