

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

Revised: 3.22.16

**Product Name:** E100-PESD™ Electrostatic Dissipative Epoxy

**Product Description:**

E100-PESD™ is a 100% solids, pigmented static dissipative epoxy floor coating. This system is self-priming, providing static dissipative (10<sup>6</sup>th - 10<sup>9</sup>th Ω/square (Ohm's). E100-PESD™ provides an average of 5v 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 epoxy ESD floors, this floor coating was designed for heavy wear and chemical resistance and is superior to water based and most 100% solids epoxy based systems available on the market today.

**USES:**

- Electronics assembly
- Laboratories
- Packaging lines
- Pharmaceutical Facilities
- Clean rooms
- AGW warehouses
- Plastic manufacturing

**FEATURES:**

- Static dissipative
- Dissipates 5000 Volt charge in 0.01 seconds
- 100% solids (0% VOC)
- Excellent wear and stain resistance
- 5v Avg. BVG with dissipative footwear
- Easy to clean

**Physical Properties**

Property	Test Standard	Result
Mix Ratio:		2 to 1 by volume
Gel Time:	ASTM C-881	19 minutes
Colors:		Light gray, medium gray, dark gray & tan. (custom colors available)
Consistency		Flowable
Compressive strength	ASTM D-695	10,500 psi
Tensile strength	ASTM D-638	3,200 psi
Flexural strength	ASTM D790	4,100 psi
Concrete bond strength	ASTM D 4541	400 psi substrate fails
Water absorption (2 hour Boil)	ASTM D-570	0.05%
Surface resistivity (meets ESD S20-20)	ASTM D 257	10 <sup>6</sup> th – 10 <sup>9</sup> th ohms all colors
Static decay	Dark gray	10 <sup>6</sup> th Ohm's
Static generation	Mil-STD 3010, Method 4046	0.01 Seconds
With dissipative footwear	ESD 97.2	<25 v
Slip resistance	ESD 97.2	5v
Coefficient of friction	ASTM F 609	0.5 minimum
Indentation	ASTM D 2047	0.5
Impact resistance	Mil D 3134	0.27 max
Flammability	Mil D 3134	Pass
Flame Spread /NFPA 101	ASTM D 570	Self extinguishing
Hardness Shore D	ASTM E-84	Class A
VOC	ASTM D 2240	74-80
		0% VOC

**LIMITATIONS**

- **Recommended application temperatures are 68° F to 88°F 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 FACILITIES.**