

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

Revised: 1/8/20

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

**Product Description:**

E100-PESD™ is 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**

<u>Property</u>	<u>Test Standard</u>	<u>Result</u>
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	ASTM D 257	10 <sup>6</sup> th – 10 <sup>9</sup> th ohms all colors
(meets ESD S20-20)	Dark gray	10 <sup>6</sup> th Ohm's
Static decay	Mil-STD 3010, Method 4046	0.01 Seconds
Static generation	ESD 97.2	<25 v
With dissipative footwear	ESD 97.2	5v
Slip resistance	ASTM F 609	0.5 minimum
Coefficient of friction	ASTM D 2047	0.5
Indentation	Mil D 3134	0.27 max
Impact resistance	Mil D 3134	Pass
Flammability	ASTM D 570	Self extinguishing
Flame Spread /NFPA 101	ASTM E-84	Class A
Hardness Shore D	ASTM D 2240	74-80
VOC		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.