

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^{6th} - 10^{9th} 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
- Packaging Lines

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	ASTM D 257	10 ^{6th} – 10 ^{9th} ohms all colors
(meets ESD S20-20)	Dark gray	10 ^{6th} 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.**