

ELECTRAGUARD ESD EPOXY SPECIFICATIONS

Mission Critical Conductive Floor Paint



PRODUCT HISTORY AND OVERVIEW:

ElectraGuard was originally invented for use in DOD munitions applications in 1992. Over the years it has been further refined with patented advancements in structural integrity.

ElectraGuard is exclusive to United SCP and a proven performer at a realistic price.

ElectraGuard is a two part epoxy. Unlike mere latex or one part epoxy floor paints that may last a year or two the ElectraGuard High Gloss System provides outstanding longevity. A 10 to 15 year life expectancy is typical for this product. The system is well suited for application on a variety of substrates including concrete, existing well bonded VCT, standard

and antistatic vinyl tiles and sheet goods, standard and antistatic thick set epoxy and more.

The ElectraGuard High Gloss ESD Floor Paint System meets or exceeds the latest most stringent standards of electrical conductivity. Leave "as is" for low glare matt finish and conductivity that meets the most recent DOD 4145.26-M, May 13, 2008 standards or top coat with ElectraGlaze for a diamond like shine and ultimate wear resistance that easily meets the recent ANSI ESD S 20.20-2007 standards.

PHYSICAL PROPERTIES:

Gloss Unsealed: Matte Finish
Gloss Sealed: 88 Min ASTM D1455-82
Colors: Light Gray, Medium Gray, Beige, Emerald Green, Sky Blue
pH: 4 to 5
Hardness: 30 Sward
Viscosity: 400 to 600
Solvent: Alcohol, water-glycol ether
Flash point: >212 deg. F
Freeze / Thaw Stability: 0 - Do not freeze
Dry time at standard air flow: 8 hours (dry to the touch). Open for traffic in 12
Coverage: 350 to 600 square feet per gallon per coat
Compressive strength over vinyl tiles: Modified ASTM F 9700-00, >2,500
Compressive strength over concrete: DIN1691 equal to or greater than that of the concrete.
Indentation impact resistance per ASTM F1914: DIN EN average of <5%, max 10%

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Abrasion resistance per ASTM D1044: SC10F wheel, 550 gm weight, cycles 10k, % loss 1.6
Resistance to wear: DIN EN660-1, M
Film thickness when dry: 1.1 mil per coat
Warranty: Life time electrical properties, 5 years wear (see details for specifics)
Resistance to chemicals: ASTM 925, DIN EN 423, slight change
Resistance to heat: ASTM 1514 $\Delta < 8$ average., max, $< \Delta E = 2.0$
Resistance to light: ASTM 1515 $\Delta < 8$ average., max, $< \Delta E = 6.0$
Fire resistance: DIN 4102, B1
Color fastness: ISO 105 B02, > 6
Critical radiant flux: ASTM E648, NFPA 253, > 1.08 w/cm ² (class 1 interior floor finish, NFPA code 101)
Shelf Life: 24 months, unopened at 70 deg F, +/- 10 degrees.

ELECTRICAL PROPERTIES

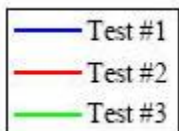
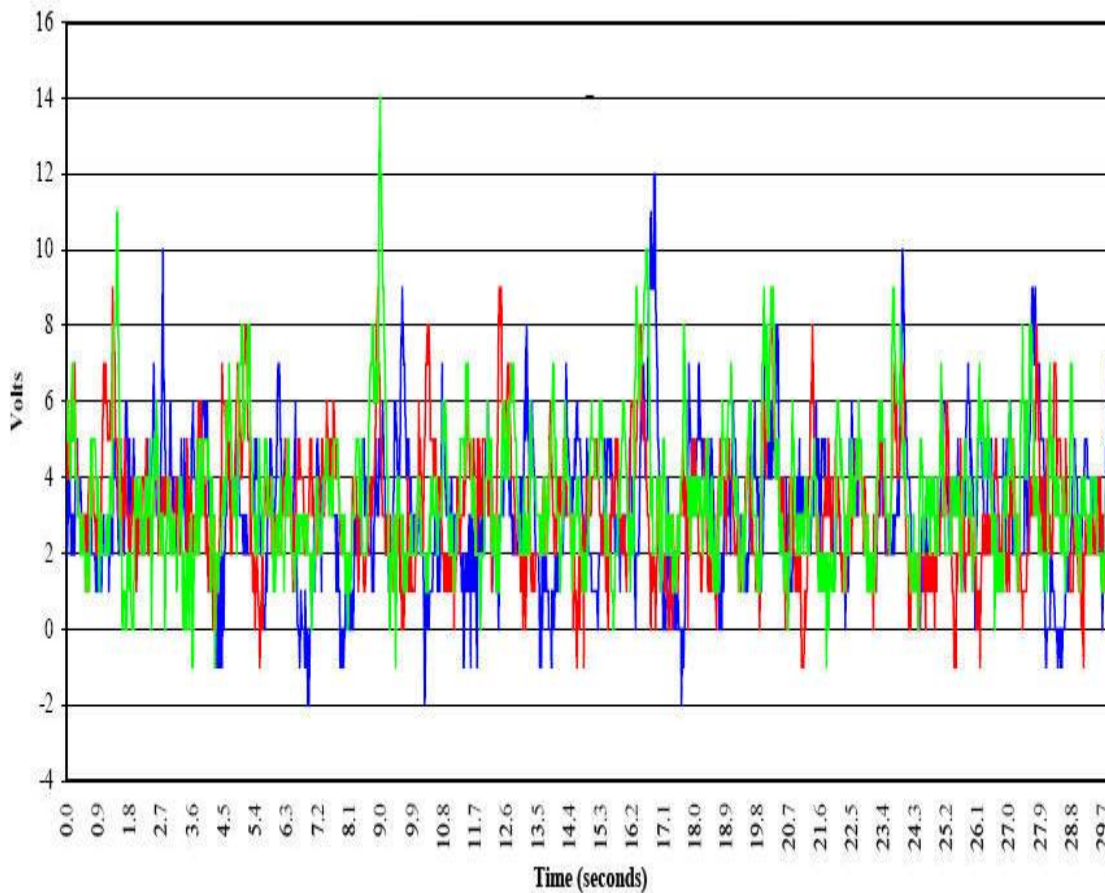
ITEM	Standard test Method	ASTM Spec	Unsealed ElectraGuard
ELECTRICAL / ELECTROSTATIC PROPERTIES			
Electrical Resistance -Surface to Surface -Surface to Ground	ESD S 7.1 (100V / 10V) ASTM F-150 (100V / 10V) NFPA 99 (500V) DIN 51953 (500V)	$> 2.5 \times 10^4 \sim < 10^6 \Omega$	$2.5 \times 10^4 \sim 10^6$
		$> 2.5 \times 10^4$	$> 2.5 \times 10^4 \sim < 9.8 \times 10^5 \Omega$
Electrostatic Propensity (=Static Generation)	AATCC 134 With heel grounders	-	<50 volts
Static Decay	Federal Test Method 101B Method 4046 at 15% Relative Humidity	< 0.5 sec	<0.01 sec
Combination resistance of technician, heel grounders and flooring	ANSI ESD S20.20-2007 97.1		<3.5E07 Ohms. PASS
Tribogeneration	ANSI ESD S20.20-2007, 97.2		<100 Volts. PASS

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Typical Electrical Properties as Tested By United SCP

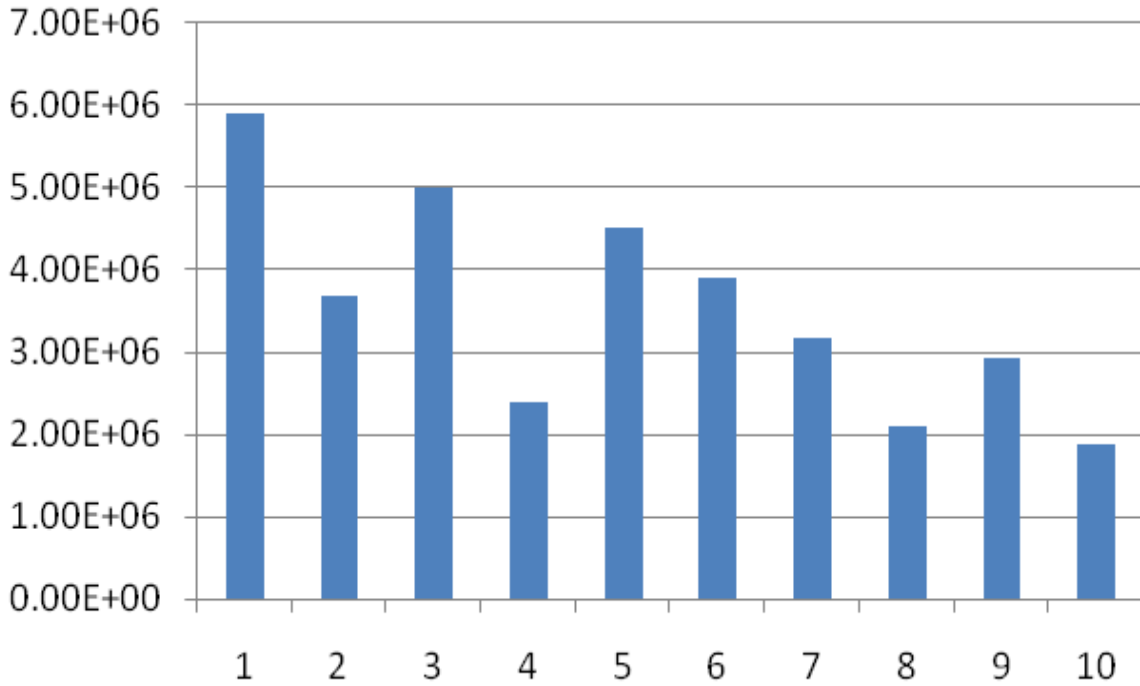
Tribocharge generation per ANSI ESD S20.20-2007, 97.2. Results: <25 volts



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Combination Resistance per ANSI ESD S20.20-2007, 97.1. Results: 3.63E06 Ohms



PN: EG-1, EG-CASE, EG-5, ElectraGuard ESD Epoxy Floor Paint		
United Static Control Products Inc	DOCUMENT NUMBER	DATE:
Approved: SRC	SRC10109B	AUGUST 2011