





ElectraGuard Stellar Black, Available in 5 designer colors

The ElectraGuard High Gloss System consists of 3 coats of a 2 part ESD Epoxy (a catalyst and a base). The Epoxy is applied with paint rollers and when dry it is often sealed with 2 topical coats of ElectraThane and single thin topical coat of ElectraGlaze applied with a microfiber mop.

With the correct preparation, ElectraGuard floors are seamless

for ease of maintenance and an outstanding high tech appearance. ElectraGuard easily handles heavy loading and is resistant to high concrete vapor emissions (the number one cause of ESD Tile and thick set epoxy failures). Maintenance is similar to ESD tiles but with the ElectraGuard High Gloss Systems scuff marks may be removed with a high speed burnisher.

The ElectraGuard High Gloss System is suited for application on a variety of substrates including concrete, existing well bonded VCT (standard tiles), table tops, wooden crates, asbestos laden tiles, sheet vinyl and more. Its range of electrical conductivity insures an exceptional interface with mobile items in the ESD program such as carts and personnel. ElectraGuard does not contain carbon; hence it is extremely clean and provides one of the lowest tribocharging (static generation) characteristics of any flooring product on the market.

ElectraGuard may be applied with a roller or with an airless paint sprayer making it an excellent choice for useon walls, ceilings, bench tops, equipment racks and more. ElectraGuard ESD Epoxy meets or exceeds the latest most stringent standards for Mission Critical Static Control including ANSI ESD S20/20-2021 and DA PAM 385.

ElectraGuard features inherent anti-slip properties that meet the latest ADA standards. The electrical conductivity may be tailored for compliance to DOD and DA PAM standards. Leave "as is" for a low glare matte finish or top coat with ElectraThane and ElectraGlaze for a diamond like shine, ultimate wear resistance and an ESD floor that *always* meets the latest ANSI/ESD S 20.20-2021 standards.





PHYSICAL PROPERTIES

Gloss Unsealed: Matte Finish
Gloss Sealed: 88 Min ASTM D1455-82
Colors: Light Gray, Medium Gray, Black, Beige, Emerald Green, Sky Blue
Slip Resistance per ASTM-D2047-5: 0.62 minimum (excellent)
Hardness: Shore 68
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
Typical Coverage: 350 to square feet per gallon per coat. 3 coats are recommended
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%
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 warranty for specifics)
Resistance to chemicals: ASTM 925, DIN EN 423, slight change
Resistance to heat: ASTM 1514 Δ <8 average., max, < Δ E=2.0
Resistance to light: ASTM 1515 Δ <8 average., max, < Δ E=6.0
Fire resistance: DIN 4102, B1
Color fastness: ISO 105 BO2, >6
Critical radiant flux: ASTM E648, NFPA 253, >1.08 w/cm2 (class 1 interior floor finish, NFPA code 101

Shelf Life and Weight: 24 months, unopened at 70 deg F, +/- 10 degrees. Weight: 10 Pounds Per Gallon.

VOC Content: Meets Federal Guidelines at <350 g/l. Zero VOC when cured. NOTE: this product is available in quart containers that are exempted from State and Local VOC restrictions nationwide.

Slip Resistance per ASTM-D2047-5: 0.62 minimum (excellent)

Hardness: Shore 68





Typical Electrical Resistance Properties Unsealed and Fully Cured*

ITEM	STANDARD TEST METHOD	UNSEALED ELECTRAGUARD
Electrical Resistance, Surface to Surface (PTP)	ANSI-ESD STM7.1-2020, EN1081, IEC61349-5-1. Tested @ 100 V /	>2.50E04 <1.0E06
Electrical Resistance Surface to Ground (RTG)	10 V, 12% / 45% rH, results in ohm	>2.5E04 <1.0E06
Electrostatic Propensity	AATCC 134-2001 / EN 1815 result in kV	<.5 PASS
Static Decay	MIL-Std 3010C, Method 4046 at 12% Relative Humidity (formerly FED-STD 101C, Method 4046)	<0.1 sec PASS
Combination resistance of technician, heel grounders and flooring	ANSI ESD S20.20-2021, 97.1	<1.0E09 Ohms. PASS
Tribogeneration	ANSI ESD S20.20-2021, 97.2 / IEC 61340-4-5	Does not exceed 100 volts. PASS (typical <10 volts +/- polarity)
Electrical Conductivity, High Velocity Medium and Light Gray	DOD 4145-26-M, (March 13, 2008) tested at 500 Volts, RTG/PTP	> 40 kV and <1 Meg Ohm. PASS
Electrical Conductivity, High Velocity Medium and Light Gray	NFPA 484-2015, tested at 500 Volts, RTG/PTP	> 40 kV and <1 Meg Ohm. PASS
Electrical Conductivity, High Velocity Medium and Light Gray	ASTM F-150, tested at 500 Volts, RTG / PTP	> 40 kV and <1 Meg Ohm. PASS
Electrical Conductivity, High Velocity Black Ice	NFPA 484-2015, tested at 500 Volts, RTG/PTP	> 20 kV and <1 Meg Ohm. PASS
Electrical Resistance, Surface to Surface Resistance to Ground	UL 779	PASS: No locations below 10,000 ohms, average readings > than 25,000 ohms.





Typical Electrical Resistance Properties when sealed with 2 thin coatsof ElectraThane and 1 thin coat of ElectraGlaze (fully cured)*

ITEM	STANDARD TEST METHOD	SEALED ELECTRAGUARD
Electrical Resistance, Surface to Surface (PTP)	ANSI-ESD STM7.1-2020, EN1081,	>2.5E04 <1.0E07
Electrical Resistance Surface to Ground (RTG)	IEC61349-5-1. Tested @ 100 V / 10 V, 12% / 45% rH, results in ohm	>2.5E04 <1.0E07
Electrostatic Propensity	AATCC 134-2001 / EN 1815 result in kV	<.5 PASS
Combination resistance of technician, heel grounders and flooring	ANSI/ESD S20.20-2021, 97.1	<1.0E09 Ohms. PASS
Static Decay	MIL-STD 3010C, Method 4046 at 12% Relative Humidity (formerly FED-STD 101C, Method 4046)	< .02 sec
Tribogeneration	ANSI/ESD S20.20-2021, 97.2	Does not exceed 100 volts. PASS (typical <5 volts +/- polarity)
Electrical Resistance, Surface to Surface Resistance to Ground	UL 779	PASS: No locations below 10,000 ohms, average readings > than 25,000 ohms.





ElectraGuard High Velocity (unsealed)

Color	Test Method	Results
Medium and Light Gray	DA PAM 385, 500 Volts, PTP / RTG	> 40 kV and <1 Meg Ohm.
Medium and Light Gray	ASTM F-150, 500 Volts, PTP / RTG	> 40 kV and <1 Meg Ohm.
Black Ice	NFPA 484, 500 Volts, PTP / RTG	> 20 kV and <1 Meg Ohm.

Note: Resistance values may be easily adjusted upwards with an additional coat of ElectraThane to meetminimum DOD resistance levels for use in 240 volt applications. * Please Note: The above readings are reflective of three coats applied to concrete and allowed to cure for a 3 week period prior to testing. Highly Insulative or conductive substratessuch as ceramic or steel, damp concrete, exceedingly high ambient humidity, grounding techniques and coating thickness may alter your final results. Always pretest the coating to your internal specifications in a small inconspicuous area prior to full scale application.

Resistance values may be adjusted upwards with additional coats of ElectraThane (applied with a microfiber mop) or ElectraGuard NC (rolled with a 1/4" nap roller). This process will allow the system to fall into the static dissipative range of >1.0E06 and <1.0E09.





Typical Charge Generation Floor Materials and Footwear Charge Generation of Person in ESD Footwear Testing per ANSI/ESD STM97.2 / ESD TR53 Flooring Section Environmental Conditions: 28.7% rH, 71.1° F (avg.) Devices used in this Testing: Monroe charge plate analyzer, Oscilloscope Results: + 3.8 volts maximum. – 3.2 volts maximum



PN: EG-1, EG-CASE, EG-5, ElectraGuard ESD Epoxy Floor Paint				
United Static Control Products Inc	Document Number: SRC10109E	Original release date: 01/16/2003 1st revision date: 04/06/2007 2nd revision date: 06/09/2015 3rd revision date: 01/16/2017 4th revision date: 7/12/2017, PTP & RTG @ 500 volts added 5th revision date: 8/14/19, change table color for ease of print. 6th revision date: 6/12/20, Meets UL Standard 179 7th revision date: 6/12/20, conductivity < 1 meg ohm cured 8 th revision date: 4/23/2021, VOC, quarts added recent 97.2 results 9 th revision date, major revision 2/19/2025 SRC		