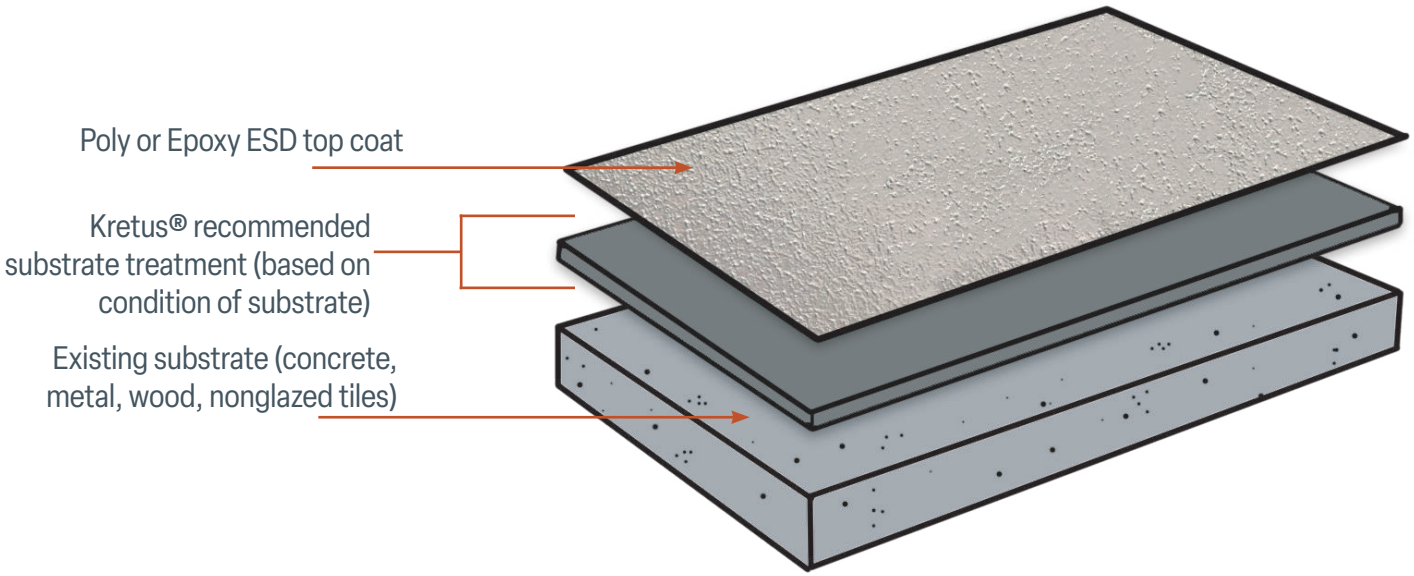
SelecTech

NANOTUBE ESD *systems*

Get all the benefits of state of the art materials and performance in a single application! **KRETUS® NANOTUBE ESD** eliminates the need for a black carbon layer, utilizing carbon nanotube technology to optimize ESD control and enhance wear resistance. Select the Epoxy for ease of installation or choose Poly for even better durability, wear resistance, and color stability.

Poly or Epoxy CONDUCTIVE or DISSIPATIVE System



COLOR CHART

Colors shown are approximate.

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BENEFITS

- ANSI/ESD compliant surface resistance:
  - Conductive - 2.5 x 10^4 to 10^6 Ohms
  - Dissipative - 10^6 to 1.0 x 10^9 Ohms
- UV-resistant (Poly) or economical (Epoxy) options
- Strong adhesion to epoxy, urethane cement, or sand
- MAS Certified Low emitting material per CA Dept of Public Health Std Method v1.2
- Systems thickness ranges from 20 mil to 1/2"

For each application, **KRETUS®** will recommend a multi-functional base layer, tailor designed to address specific attributes of the existing substrate. In all cases the base layer provides full mitigation of substrate moisture levels. This layer can range from a single coating of primer to up to 1/2" of polymer concrete to cover substrate irregularities and add compression strength.

PROPERTIES	TEST METHOD	POLY TYPICAL VALUES	EPOXY TYPICAL VALUES
Conductive System Resistivity	ANSI/ESD S7.1	2.5 x 10^4–10^6 ohms	2.5 x 10^4–10^6 ohms
Dissipative System Resistivity	ANSI/ESD S7.1	10^6–1.0 x 10^9 ohms	10^6–1.0 x 10^9 ohms
Body Voltage Generation (with Dissipative Footwear)	ANSI/ESD STM97.2	15V	15V
Abrasion Resistance	ASTM D4060	10-15 mg	15-20 mg
Adhesion Strength	ASTM D4541	400 psi, concrete failure	400 psi, concrete failure
Flame Spread/ Critical Flux	ASTM E648	Class 1	Class 1
Flame Spread/ Rate of Burning	ASTM D635	Self-extinguishing	Self-extinguishing
Hardness (König Hardness)	ASTM D4366	150	-
Hardness (Shore D)	ASTM D2240	-	85
Impact Resistance	ASTM D2794	120 in-lbs.	120 in-lbs.
Indoor Air Quality	CA 01350	Compliant	Compliant
Microbial Resistance	ASTM G21	Passes, 0 growth	Passes, 0 growth
Moisture Vapor Emission Rate	ASTM F1869	3 lbs.	8-10 lbs.
Moisture Vapor Permeance	ASTM E96	0.08 perms	0.08 perms
Relative Humidity	ASTM F2170	<80%	<80%
Tensile Elongation at Break	ASTM D2370	5%	5%
Tensile Strength	ASTM D2370	6,000 psi	7,800 psi
UV Resistance	ASTM D4587	High (Level 3)	-
Water Absorption	ASTM D570	<0.05%	<0.05%
Yellowing Resistance	ASTM G154	< 3.0 ΔE, gray (color tested for visible changes)	-

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