

ULTRASTAT-SC and ULTRASTAT-SD



Ultrastat-SC and Ultrastat-SD are ideal for installation in any facility where uncontrolled electrostatic discharge is a concern, such as electronics manufacturing, assembly areas, clean rooms, computer rooms, telecommunication installations, and healthcare facilities. Ultrastat ESD control vinyl tile and conductive epoxy adhesive are components of a precision engineered system of static control tile. Ultrastat-SC (static-conductive) vinyl tile and Ultrastat-SD (static-dissipative) vinyl tile contain encapsulated conductive elements of the carbon family that are distributed throughout the tile to provide through-tile conductivity.

The GZ-2000 conductive epoxy adhesive with which the tile is installed provides lateral tile-to-tile conductive continuity. With conductive elements distributed throughout their entire 1/8" thickness, Ultrastat-SC and

Ultrastat-SD retain their conductivity indefinitely, saving you valuable time and unnecessary costs, no special treatment or wax is required to restore or maintain conductivity. The performance of these solid vinyl tile products is not dependent on wear layers, subsurface layers, internal antistats, or humidity due to their homogeneous nature.

ULTRASTAT- LE / LXE

Offering all the benefits and features of original ESD control products, Ultrastat LE/LXE were designed specifically for demanding manufacturing environments such as clean rooms and fab rooms which require low outgassing. Utilizing macromolecular technology, Our compounder has developed an innovative low emissivity ESD control flooring solution, resulting in the lowest emissivity commercial resilient flooring in the world. Reformulated for low emissivity. Ultrastat LE, DOP-free tile products offer a nearly 50% reduction in emissivity compared to standard ESD control vinyl tile. Ultrastat LXE utilizes an extremely high molecular weight permanent polymer plasticizing system which, unlike most lower molecular weight standard plasticizer systems, does not allow migration through the tile compound to the surface and therefore, is not lost to evaporation or common extraction.

Ultrastat LE & LXE are available in three colors: White, Glacier & Winter White.

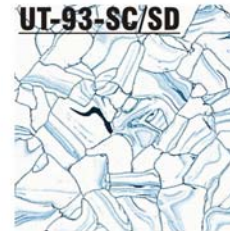
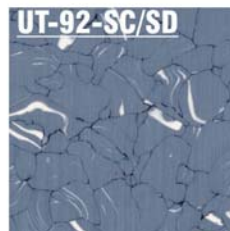
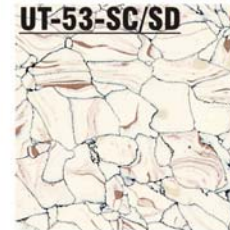
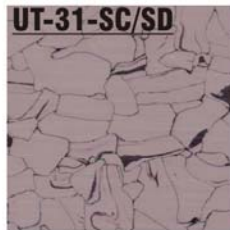
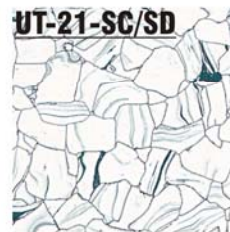
Ultrastat ESD control vinyl tile and GZ C-2000 conductive adhesive are components of a precision engineered system of advanced static control flooring. Available in SC (static-conductive) and SD (static-dissipative) our tiles contain proprietary encapsulated conductive elements distributed evenly throughout the tile to provide exceptional, electrically consistent, through-tile-to-ground charge decay. Unlike other ESD Tiles these encapsulated Conductive elements retain their conductivity for life while providing the electrical assurance you can count on in the most demanding of environments



Homogenous Vinyl Tile cross section, note conductive elements throughout thickness

The performance of this solid vinyl tile is not dependent on wear layers, subsurface layers, internal antistats, or humidity and features a **lifetime warranty on electrical conductivity.**

COLORS



Note: Standard color offering is subject to change. Due to color variations in printing, please refer to actual samples for accurate color.



Ground Zero Electrostatics ULTRASTAT-SC and ULTRASTAT-SD

SPECIFICATIONS

ULTRASTAT-SC

ELECTRICAL PROPERTIES:

PTP: 2.5×10^4 to 10^6 per NFPA-99 @ 500 V
RTG: 2.5×10^4 to 10^6 per EOS / ESD S7.1

STATIC DECAY:

Conditioning: 50% RH +/-2% @ 23°C +/-1° for 24 Hours
Test conducted @: 50% RH +/-2% @ 23°C +/-1°C
Test results=Time, seconds to decay to 10% of initial charge
Results, <0.01 seconds

ULTRASTAT-SD

ELECTRICAL PROPERTIES:

PTP: 2.5×10^6 to 10^8 per NFPA-99 @ 500 V
RTG: 2.5×10^6 to 10^8 per EOS / ESD S7.1

STATIC DECAY:

Conditioning: 50% RH +/-2% @ 23°C +/-1° for 24 Hours
Test conducted @: 50% RH +/-2% @ 23°C +/-1°C
Test results=Time, seconds to decay to 10% of initial charge
Results, <0.02 seconds

OTHER PROPERTIES:

ASTM F 1700

Passes

Underwriters Laboratories

Meets UL Standard

NFPA Life Safety Code 101

Class I Interior Floor Finish

Critical Radiant Flux (ASTM E 648)

Ultrastat-SC > 1.08 W / cm²

Ultrastat-SD > 1.03 W / cm²

Smoke Density Test (ASTM E 662)

<450

Flame Spread (ASTM E 84)

<75

Static Load Limit (Modified ASTM F 970-93)

2,500 psi

CONSTRUCTION

Composition:

Homogeneous solid vinyl tile that has encapsulated conductive elements of the carbon family distributed throughout the tile.

Gauge:

1/8"

Nominal Sizes:

12" x 12", 24" x 24", 36" x 36" Custom Sizes Available.

INSTALLATION

Adhesive & Spread Rate:

#150 Conductive Epoxy Adhesive; Covers 150 square feet / gallon.

Trowel Size:*

Type one: 1/16"x1/16" Square Notch with 1/16" Flats

Type two: 1/16"x1/16" Half Circular Notch with 1/32" Flats

Grounding:

One 2"x 24" copper strip installed every 2,000-2,500 feet.

Trowel size is dependent upon tile size, surface type and condition, Please refer to installation instructions for proper trowel size selection.



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Ground Zero Electrostatics ULTRASTAT-SC and ULTRASTAT-SD

Chemical Resistance: 1 Hour Exposure Time	
Sulfuric Acid (Conc.) 95%	No effect
Sulfuric Acid (77%)	No effect
Sulfuric Acid (5%)	No effect
Nitric Acid (Conc.)	Very slight surface attack
Nitric Acid (5%)	No effect
Hydrochloric Acid (Conc.)	No effect
Hydrochloric Acid (5%)	Very slight surface attack
Acetic (Conc.)	No effect
Acetic (5%)	No effect
Sodium Hydroxide (50%)	No effect
Ammonium Hydroxide (28%)	No effect
Methyl Alcohol	No effect
Ethyl Alcohol	No effect
Butyl Alcohol	No effect
Phenol	Very slight surface attack
Benzene	No effect
Xylene	No effect
Cresol	Very slight dulling
Gasoline, Mineral Oil	No effect
Chloroform	No effect
Carbon Tetrachloride	No effect
Trichlorethylene	No effect
Acetone	No effect
Methyl Ethyl Ketone	Slight surface dulling
Amyl Acetate, Ethyl Acetate	No effect
Silver Nitrate (40%)	Slight brown stain
Ethyl Ether	No effect
Formaldehyde (40%)	No effect
Iodine	Yellow stain



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