



ElectraDyne Titanium Series® ESD Floor Mat for Static Control ANSI / ESD S20.20 Compliant, 20 Year Warranty on Static Conductance & Made in the USA!



Product Overview: EDT-1 ESD chair mats may be manufactured to ANY rectangular or square size. They are made from a 3 mm thick interlocking modular tile that features a full surface static conductive backing covered with a topical wear surface that is nearly indestructible. We manufacture the structure at our Colorado facility by laying out your design and trimming off the interlocking outside teeth.

We pre-punch convenient ground points and supply the structure with a floor mat ground cord. The structure is tested to the latest ANSI standards prior to us numbering the tiles, disassembling it and packaging it for shipping. EDT-1's are sold by the square foot and arrive at your location FLAT and ready to go to work. These structures are ideal for use over ANY hard surface flooring and work well for covering office grade (thin pile) glue down carpeting. When used over carpet, the structures support chair caster and foot traffic and lighter weight rolling loads (e.g. ESD carts). When used over hard surface flooring they support ALL types of traffic including forklifts and pallet jacks. Protect your ESD flooring investment - Perfect for covering ESD paint and virtually ANY type of ESD flooring (ground through the fully conductive backing - no ground cord required).

Maintenance: Dry dust mop at end of shift to remove ALL abrasives, metal shavings, nut, bolts etc. Remove scuff marks using the abrasive edge of a Swiffer Wet Jet pad or doodle bug and a dilute solution of ElectraClean and water. Damp mop with a Swiffer wet jet as needed. No ESD floor finish is required, however these structures may be coated with 2 to 3 thin coats of ElectraGlaze should a higher gloss and increased scuff mark removal be desired.

Reassembly and Installation: These structures are built on demand at our facility located in Pueblo CO. Once completed, each tile is numbered. A reassembly diagram is included on the ESD compliance paperwork provided with the structure. Allow the tiles to acclimate for 8 hours in the area where the structure will be reassembled. Lay the structure on the substrate using the numbered order we have provided. Using a dead blow mallet (or similar) tap the teeth together. Note: Be sure to keep the head of the mallet clean.

Electrical Grounding: Attach ground cord fastener (provided with your order) to any convenient (pre-drilled) corner hole. Snap PN-115-AS floor mat ground cord to fastener. Attach ring terminal cord termination to the center screw of an AC faceplate cover or attach it to ground using a method selected by your ESD program coordinator. Note: One ground cord is sufficient for structures up to 100 square feet. For areas over 100 square feet contact UnitedSCP for further directives.

Compliance Verification: Each structure has been fully tested and certified to ANSI ESD S20.20-2021, TR-53 Footwear / Flooring System Compliance Verification using in compliance test equipment prior to packaging and shipping to your location.

Product Qualification: Titanium ESD Flooring has been fully tested and warranted as COMPLIANT to ANSI / ESD STM97.1 and ANSI/ESD STM97.2.



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SPECIFICATIONS

ASTM F-1700 Solid vinyl floor covering	Conforms
Thickness:	3 mm
ANSI/ESD S20.20-2021	Compliant, meets page 6 table 2 product qualification and compliance verification.
ASTM E-84, fire spread	<75 (class II)
ASTM 662-06, smoke density	<.450
ASTM E-648-06a, CRF (w/cm ²)	>1.08 W/cm ² (NFPA 253 Class 1)
ASTM F-925-02, chemical resistance	Excellent
ASTM F-970-07, static load	2,500 PSI over hard surface substrates
Warranty	20 year warranty on static control properties
Resistance to Concrete Vapor Emissions, ASTM D4263	Passes with absence of moisture
Resistance to Concrete Vapor Emissions, E-1907-04	Passes at < 8 pounds /1,000 sf/24 hour period
Electrostatic Propensity, STM 97.2	Passes at <100 volts. Typical 1V+, 2V-
Electrostatic Propensity, AATCC 134-06	<2kV
Electrical Resistance, ANSI/ESD S7.1, PTP	<1.0E06
Electrical Resistance, ANSI/ESD S7.1, RTG	<1.0E09
ASTM E-101C, static decay, 4046 @ 15%	5,000 – 0 Volts in <0.01 seconds
Chair Caster Resistance per EN 425	Suitable for ESD chairs with castors
D.O.D. HDBK 263A, section 40.1.2	Meets guidelines, ESD devices, class 1
Tolerance of structures	+/- 2 inches

END OF DOCUMENT
Document Number 10345: approved for release, SRC 9.21.23.