

ESD / Static-Control Floor System

Static-dissipative epoxy flooring with verified grounding

System overview

A grounded resinous floor system that drains static charge through the floor to building ground instead of letting it accumulate on personnel, carts, and equipment. Built as a complete system to the coating manufacturer's specification: conductive groundplane, grounding points bonded to building ground, and a static-dissipative wear surface. Point-to-point and surface-to-ground resistance are checked at handoff and documented for your compliance file.

Typical system build-up

Layer	Description
Preparation	Diamond grinding to sound, profiled concrete; crack repair; slab moisture metering
Moisture control	Moisture vapor barrier epoxy where meter readings call for it
Groundplane	Conductive primer layer with copper grounding points bonded to building ground
Wear surface	Static-dissipative epoxy top coat per the manufacturer's ESD system specification
Verification	Resistance readings at handoff, documented

Typical applications

- Electronics assembly, test, and repair areas
- Laboratories and cleanroom-adjacent spaces
- Flammable liquid storage and dispensing rooms
- Server and switchgear rooms where specified

Surface preparation

Mechanical diamond grinding with dust extraction. ESD performance depends on the full system, so preparation, primer, grounding, and top coat are installed strictly to the manufacturer's system data sheet with no substitutions between layers.

Project notes

- ESD requirements come from your process documentation, customer contracts, or insurer - bring those to the walkthrough and the system is specified against them.
- If your facility does not actually require static control, we will say so and quote a standard system instead.

Final system selection, thicknesses, and products are specified per project from the manufacturer's current technical data sheets after a site walkthrough and slab moisture readings. This sheet is a general guide, not a quotation or engineering document.

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