TTR200

Anti-Static Epoxy Flooring System

A seamless industrial epoxy flooring assembly designed for environments where controlled electrostatic discharge is required. Compatible primer, conductive coating, grounding connections and ESD epoxy finish work together as a coordinated system.



SYSTEM FEATURES

Integrated ESD control / Conductive undercoat / Grounding provision / Seamless, cleanable finish

TYPICAL APPLICATIONS

Electronics assembly, precision instrument production, industrial laboratories, component-handling rooms and other indoor areas with specified electrostatic-control requirements.

SYSTEM DESIGN

Typical self-leveling reference system: **2.0-3.0 mm** nominal build-up. The finished design depends on the concrete, selected ESD coating, compatible leveling layers and tested grounding arrangement. Conductive and dissipative requirements must be selected separately.

System Layers and Construction Materials

Schematic sequence from the wearing surface down to the prepared concrete base.

1 Anti-static epoxy topcoat
Compatible ESD self-leveling wearing surface

2 Conductive epoxy undercoat
Continuous conductive plane beneath the ESD finish

3 Copper grounding tape
Connected to verified earth; embedded in matched system

4 Primer / optional leveling
Sound bonding layer and ESD-compatible surface smoothing

5 Concrete substrate
Ground, repaired, clean and suitable for coating

The copper tape is installed over the cured primer / leveling coat before the conductive undercoat; it is a grounding connection, not a separate full-area coating.

REFERENCE MATERIAL SCHEDULE

General epoxy primer	A:B = 1:1*	Bonding / substrate sealing
ESD epoxy intermediate	A:B = 5:1*	Optional matched leveling resin
Copper grounding tape	No mixing	Connection to verified earth
Conductive undercoat	By supplied kit	Conductive electrical pathway
ESD self-leveling finish	A:B = 5:1*	Final anti-static wearing layer

Mixing note: *A:B reference ratios come from the earlier TUTR material planning list. Not all ESD primers or finishes share a ratio. The current supplied kit and its TDS / label control mixing, recoat timing and pot life.

RECOMMENDED APPLICATION SEQUENCE

01. Grind and clean concrete; inspect moisture and repair weak areas.

02. Apply compatible primer and ESD-approved leveling where needed.

03. Install copper tape and verify connection to a proper earth point.

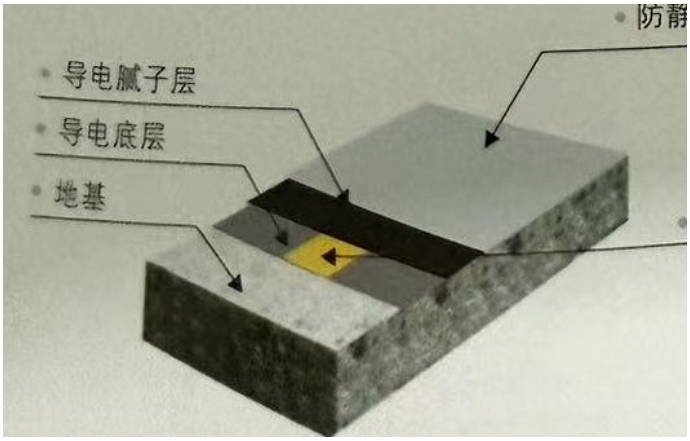
04. Apply the continuous conductive coat; verify prior to ESD topping.

05. Apply matched ESD topcoat and allow the required curing time.

06. Measure electrical resistance using the agreed acceptance method.

Reference Design and Electrical Verification





TYPICAL PLANNING AND QUALITY CHECKS

Reference total thickness	2.0 / 3.0 mm; confirm the actual layer build-up
Primer planning	Approx. 0.20-0.35 kg/m2; varies with concrete
Conductive layer quantity	Confirm kit-specific coverage and film thickness
ESD finish quantity	Select from the real topcoat TDS and required finish
Grounding and joints	Verify copper connections and electrical continuity
Electrical verification	Test floor-to-ground and point-to-point resistance
Methods / conditions	Use project-selected ESD tests and record environment

ELECTRICAL ACCEPTANCE AND LIMITATIONS

Confirm the specified resistance category and the test method **before procurement**. Standards used in the industry include IEC 61340-4-1 and ANSI/ESD STM7.1; acceptance must match the customer specification. Final installed-floor readings depend on coating compatibility, grounding, curing, humidity and test conditions.

A conductive undercoat alone does not certify an entire system. The historic brochure values and reference estimates are **not current TTR200 batch test certificates**. Do not claim a fixed electrical resistance, ESD compliance or service life without relevant verified test evidence.

MATERIAL SUPPLY AND QUOTATION

TUTR can coordinate the supply of epoxy primer, compatible leveling materials, conductive coatings, ESD finish and grounding accessories, with technical support for system selection. Confirm the required standard, flooring area, substrate, intended use and project location before final pricing.