



MiraFlor ESD

Product Technical Data Sheet

MiraFlor ESD is a high solids, fluid-applied electrostatic dissipative epoxy flooring system designed for use in environments subject to potential damage caused by electrostatic discharge. It is applied over MiraPrime MVERS Plus primer. In accordance with ESD Association Standard 7.1.7.1, it is electrically active within a resistance range of one million (1E⁶) to one billion (1E⁹) ohms.

WHERE TO USE

- Clean rooms
- Electronics manufacturing and distribution
- Hazardous industries (dust/explosion potential)
- Areas requiring a grounded floor
- Circuit board assembly facilities
- Computer server farms
- Hyperbaric spaces in healthcare settings
- Electronic testing laboratories
- Data processing areas
- Military and aerospace industries

ADVANTAGES

- Conforms to ANSI S20.20
- Exceeds resistance to vehicular forklift truck traffic
- Sanitary
- Excellent abrasion resistance
- Monolithic, seamless
- Chemical resistance

THEORETICAL COVERAGE RATES

100 - 133 sq. ft. per gallon @ (12-16 mils WFT).

PACKAGING and COLORS

Kit Size: 3.75 gallon

Component A: 2.25 gallons

Component B: 1 gallon

Component C: 0.5 gallon

#413, #431, #402 - Refer to Miracote Color Chart #L-543

The actual colors can result in small deviations from

Color chart due to the nature of the element

that makes this Static Dissipative or Conductive

MIX RATIO

1A : 1B : 1C

Do not split kit

SHELF LIFE AND STORAGE

One year from the date of manufacture as long as containers remain unopened, and material is stored in a protected environment free from moisture, excessive heat, freezing temperatures, and direct sunlight.

TYPICAL PHYSICAL PROPERTIES @ 75°F (24°C)

Pot Life.....	35 minutes
Cure Time.....	8-12 hours
Recoat Window.....	18-36 hours
Impact Resistance ASTM D1794.....	Passes
Hardness ASTM D2240.....	90
Surface Hardness ASTM D2240.....	D 75-85
Adhesion ASTM D4541.....	> 400 psi (100% cohesive failure in concrete)
VOC EPA Method 24.....	<5 g/L
Electrical Transmission Properties.....	1E ⁶ -1E ⁹ ohms
Abrasion Resistance ASTM D3060.....	60 mg
Coefficient of Friction ASTM D2047.....	0.63 (Dry)

OVERVIEW OF INSTALLATION STEPS

- **Surface Preparation** – All surfaces must be clean, sound, dry and free from any bond inhibiting substances including, but not limited to, grease, oil and any other contaminants or loosely adhered materials. For concrete substrates, a minimum surface profile of CSP 2 or 3 is required depending on overall substrate conditions and coating requirements.

- **Prime Concrete Substrate** – Mechanically mix and apply MiraPrime MVERS Plus at 16mils. Refer to Product Technical Data Sheet (PTDS) and Installation Guideline (IG).

- **Provide grounding in accordance with ANSI ESD S 6.1-2009**

- **Mixing** – **MiraFlor ESD** epoxy components must be mixed mechanically using a low-speed drill (300-450 rpm) until well blended with a “Jiffy-type” or similar Miracote-approved mixing paddle. Add all of C components slowly to the 5gallon pail of A component and mix slowly for 60 seconds. Then add the B component to the 5gallon pail and mix for 60 seconds. At least once while mixing, stop to scrape down the sides and bottom of the pail to ensure thorough mixing of both components. Once completely mixed strain in a separate bucket before application.

Application – Pour out mixed **MiraFlor ESD** in a large ribbon across the properly primed and grounded concrete surface. Spread evenly with a notched squeegee, and back-roll with a high quality, phenolic core, industrial grade, 3/8” maximum non-shedding nap roller to achieve mil consistency.

MiraFlor ESD100

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FOR BEST RESULTS

- Always install a minimum 4' by 4' test area site mock-up for approval of acceptable color, texture, finish, adhesion, and any other critical requirement acceptable to the owner prior to proceeding with the installation.
- Verify and download current versions of product technical data sheets (PTDS), material safety data sheets (MSDS), and installation guides (IG) at www.miracote.com.
- Always protect materials from excessive heat and cold, and pre-condition to room temperature, as necessary.
- Regularly check wet film thickness with mil gauge and monitor consumption to ensure correct application rates are obtained.
- The proper application of this product is the sole responsibility of the end user. Job site visits by Miracote representatives are only for the purpose of making recommendations, and do not assume any liability for supervision or quality control.
- Measure ambient and surface temperatures to ensure the material is only applied between a minimum of 50° F and a maximum of 90° F during placement and cure time.
- Provide proper grounding of the floor surface in accordance with ANSI ESD S61-2019.

LIMITATIONS

- Intended for use by professional installers only.
- Minimum ambient/substrate temperature of 50°F (10°C) required.
- The concrete must be minimum age of 7 days, depending on curing and drying conditions.
- The color may yellow over time when exposed to UV.

LIMITED WARRANTY

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CAUTION: ALWAYS KEEP OUT OF THE REACH OF CHILDREN.



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