



## KÖSTER ESD 175

Technical Data Sheet CT 175 008

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kiwa – Testing of the electrostatic properties according to DIN EN 61340-4-1, DIN EN 61340-4-5 and DIN EN 1081 from May 11th, 2021

## Conductive layer for electrostatic discharge floors in combination with KÖSTER ESD 275 according to the ESD Guidelines

### Features

KÖSTER ESD 175 is a water based epoxy dispersion for priming floors to be coated with KÖSTER ESD 275. The KÖSTER ESD System creates an ESD protected area according to the norms DIN EN 61340-4 part 1 and 5 and the DIN EN 1081.

### Technical Data

Mixing ratio by weight (A:B)	9 : 1 (A : B)
Pot life (+ 23 °C)	approx. 40 min.
Density	1.0 g/cm <sup>3</sup>
System resistance	lower than 10 <sup>2</sup> Ohm
Color	Black
Slip resistance classification	R10 / R11

### Fields of Application

KÖSTER ESD 175 serves as a primer, sealer, and conductive layer for KÖSTER ESD 275.

### Substrate

The substrate must be dry, solid, free of loose particles, oils, grease, and other contaminants. Sandy, dusty, or soiled substrates are to be prepared by shotblasting down to a solid and clean layer. Grinding as a method of substrate preparation is only allowed on details and smaller areas that shotblasting equipment cannot reach. The minimum tensile strength of the substrate should be 1.5 N / mm<sup>2</sup>.

Mineral substrates are to be primed with an epoxy such as KÖSTER Construction Resin or KÖSTER LF-BM. Rough substrates, for example grinding tracks, are leveled with KÖSTER LF-BM filled with kiln dried quartz sand in a mixing ratio of 1:4.

When the slab is exposed to moisture from the substrate, the surface must be treated with KÖSTER VAP I 2000. After surface preparation with reaction resins the substrate must cure for a minimum of 12 hours. After applying the conductive layer, KÖSTER ESD 175 can be coated with KÖSTER ESD 275 at the earliest after approx. 4 hours or after complete drying, but at the latest after approx. 24 hours.

### Application

Pre-mix the A component with the KÖSTER Resin Stirrer. The A and the B component must be mixed intensively using a slowly rotating electrical mixer equipped with a KÖSTER Resin Stirrer. The material must be mixed at least 2 minutes until it is streak free and homogeneous in appearance. Re-pot the material and mix again to avoid mixing failures. Broadcasting into the material is not permissible. Apply the material with an epoxy grade short napped roller.

### Consumption

Approx. 100 g / m<sup>2</sup>

### Cleaning

Clean tools immediately after use with KÖSTER Universal Cleaner.

### Packaging

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8 kg combipackage

### Storage

Store the material at temperatures between + 10 °C and + 25 °C; in originally sealed packages, the material can be stored for a minimum of 12 months.

### Safety

Wear protective gloves, safety goggles, splash protection, and long sleeves. Use all Personal Protective Equipment required by governmental, state, and local regulations while processing.

### Suggestions

Liquid polymers react to temperature fluctuations by changing their viscosity and/or curing behavior. The instructions given in the Technical Data Sheets must be followed. Application should only be carried out during falling or constant temperatures. Low temperatures will slow the reaction; high temperatures and mixing large volumes will increase the reaction rate. A temperature difference of + 3 °C to the dew point must be ensured during application and curing. Protect the coating from moisture of all kinds during application and curing.

### Related products

KÖSTER LF-BM	Prod. code CT 160
KÖSTER Construction Resin	Prod. code CT 165 025
KÖSTER VAP I 2000	Prod. code CT 230
KÖSTER ESD 275	Prod. code CT 275 026
KÖSTER ESD 475	Prod. code CT 475 025
KÖSTER ESD 476	Prod. code CT 476 001
KÖSTER Resin Roller 250 mm	Prod. code CT 916
KÖSTER Resin Roller 150 mm	Prod. code CT 917
KÖSTER Universal Cleaner	Prod. code X 910 010

The information contained in this technical data sheet is based on the results of our research and on our practical experience in the field. All given test data are average values which have been obtained under defined conditions. The proper and thereby effective and successful application of our products is not subject to our control. The installer is responsible for the correct application under consideration of the specific conditions of the construction site and for the final results of the construction process. This may require adjustments to the recommendations given here for standard cases. Specifications made by our employees or representatives which exceed the specifications contained in this technical guideline require written confirmation. The valid standards for testing and installation, technical guidelines, and acknowledged rules of technology have to be adhered to at all times. The warranty can and is therefore only applied to the quality of our products within the scope of our terms and conditions, not however, for their effective and successful application. This guideline has been technically revised; all previous versions are invalid.