KÖSTER
Waterproofing Systems

KÖSTER ESD 275

Technical Data Sheet CT 275 026

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Kiwa – Testing of the electrostatic properties according to DIN EN 61340
Polymer Institute Kiwa GmbH
Test report P 9788 - Defining the slip resistant properties according to the DIN 51130:2014 an KÖSTER ESD 275

Self levelling coating for electrostatic discharge floors according to ESD Guidelines

Features
KÖSTER ESD 275 is a rigig, solvent free, self leveling surface coating for floor areas which are to be protected by an ESD zone. The KÖSTER ESD System creates an ESD protected floor for areas that have to be protected from static discharge such as electronic areas, in the automobile industry, laboratories, and areas that habe to be protected against mechanical and chemical stresses. The KÖSTER ESD System fulfils the norms DIN EN 61340 parts 1 and 5, and is therefore also qualified as personal grounding protection.

Technical Data

Mixing Ratio (by weight, A:B)	1.6:1
Color	Grey, (other colors available on request)
Pot life (+ 20 °C)	approx. 20 min.
Installation temperature	+ 15 °C - + 25 °C
Density	1.5 g/cm³
Resistance against grounding Rg [MΩ]	< 1000 Ω
Personal grounding resistance R (System shoe-floor)	
A) Total system resistance [MΩ]	< 35
B) Maximum generated potential on body (walking test) [V]	< 100

Fields of Application
KÖSTER ESD 275 is a rigid surface protection system for concrete protection where ESD protection zones are required for light traffic.

Substrate
The substrate must be primed with KÖSTER LF-BM or KÖSTER Construction Resin, and with KÖSTER ESD 175. The substrate must be free of loose particles, oils, grease, and other contaminants. Prior to installation the copper electrical grounding KÖSTER ESD 475 must be attached in a radius of 10 m and connected to the KÖSTER ESD 476 grounding by an electrician. We suggest self-adhesive conductive copper tape.

Application
The A and B components must be conditioned to a temperature between + 15 °C and + 25 °C. The A and B components are mixed intensively using a slowly rotating electrical mixer (max 400 rpm). The material must be mixed for 2 minutes until it is streak free and homogenous in appearance. Re-pot the material and mix again to avoid mixing failures. Apply with a notched spreader or trowel. Spiked shoes must be worn during application while walking over the fresh material. Broadcasting into the material is not permissible.

With a consumption of 2 kg / m² and a respective coverage, the following slip resistance classes can be achieved:
- glass sphere 0.1 - 0.3, slip resistance class R10
- matting agent 0/5, slip resistance class R09.

Consumption
1.5 kg / m² / mm layer thickness

Cleaning
Clean tools immediately after use with KÖSTER Universal Cleaner.

Packaging

CT 275 026	26 kg combi package

Storage
Store the material at temperatures between + 5 °C and + 25 °C. In originally sealed packages the material can be stored for 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 appliication 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 ESD 175	Prod. code CT 175 008
KÖSTER VAP I 2000	Prod. code CT 230
KÖSTER ESD 475	Prod. code CT 475 025
KÖSTER ESD 476	Prod. code CT 476 001
KÖSTER Universal Cleaner	Prod. code X 910 010

CT - Coatings

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