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BARiT ATEX-COATING, electrically conductive | Industrial Floors Deutsches Kunststoffinstitut
TU-Darmstadt



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DEFINITION AND PURPOSE

The conductive BARiT-ATEX-COATING consist of two-components systems based on solvent-free epoxy and/or polyurethane resins packed with mineral fillers and inorganic pigments. Layers of 1.5 to 2 mm are to be applied.

Quick Info

- conductiv to DIN EN 1081 between $10^4 \Omega$ and $10^6 \Omega$
- jointless
- in mat surface antiskid to BGR 181 R9
- mechanical stability
- chemical resistance
- decontaminatable
- almost no abrasion
- easy cleaning and disinfection



APPEARANCE

The electrically conductive BARiT-COATING - Type: ATEX POWER and Type: ATEX-ELASTIC can be installed with a matte or gloss finish according to the BARiT color chart. Specialized colors are available for areas over 500 m² on request.

FEATURES

BARiT COATING - Type: ATEX-POWER, is a two-component system based on a solvent-free epoxy resin, enriched with mineral fillers and inorganic pigments. Measured according to DIN EN 1081, the discharge resistance lies between 10⁴ Ω and 10⁶ Ω.

BARiT COATING - Type: ATEX-ELASTIC, is a flexible two-component system based on a solvent-free polyurethane resin, enriched with mineral fillers and inorganic pigments. Measured according to DIN EN 1081, the discharge resistance lies between 10⁴ Ω and 10⁶ Ω.

BARiT-ATEX-COATING - Type: ATEX POWER and Type: ATEX-ELASTIC are resistant to a variety of alkalis, diluted acids, salt solutions, mineral oils, as well as lubricants and fuels. The flooring's installed thickness is 1.5 - 2.5 mm. A matte finish allows for non-slipping movement.

The seamless surface ensures hygienic protection as well as a sterile environment and allows for easy cleaning. For this purpose we offer BARiT Cleaner, which is specifically designed to clean and care for our products..

TYPE	ATEX-COATING POWER/ELASTIC
Binding agent	2-K-EP-resin / 2-K-PUR-resin
Fillers	inorganic/inert
Solid matters	99 %
Flash point	> 110 °C / > 100 °C
Consumption/m ²	ca. 2,1 kg/mm / ca. 2,1 kg/mm
Colour shade	BARiT card of colours
Grade of gloss	gloss or mat with finish
Fire behaviour DIN EN 13501-1	Bfl-s1, hardly inflammable
Bending tensile strength DIN 1164**	> 10 N/mm ²
Compression strength DIN 1164**	> 40 N/mm ²
Erdbleitwiderstand DIN EN 1081	10 ⁴ – 10 ⁶ Ω / 10 ⁴ – 10 ⁶ Ω
Adhesive pull strength DIN EN 24624	> 1,0 N/mm ²
Light-fastness	conditionally resisting to UV
Temperature resistance	-20 °C to +70 °C
Chemical resistance	to resistance list and self test
Working under conditions of:	
air humidity	< 75 % / < 80 %
residual moisture of the ground	< 3 %
ground temperature min.	15 °C
ground temperature max.	22 °C
Curing time at 20°C:	
not sticky	after 6 hours
walking admissible	after 16 hours
final hardness	after 7 days
Mechanical stability	after 7 days
Cleaning	BARiT Cleaner*

** with prism method - according to AGI Worksheet A 80 and BEB worksheets KH

* according to cleaning and care instructions



laboratory corridor DKI, Darmstadt

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