

EP 211 AS



PRODUCT DESCRIPTION	Two-component self-leveling electrostatic dissipative floor coating based on epoxy resin, solvent-free.
PURPOSE	Self-leveling electrostatic dissipative floor for protection and decoration of concrete floor surfaces and cement glaze exposed to medium to heavy mechanical and chemical wear in industrial (production) facilities, laboratories with sensitive electronic equipment, computer rooms, warehouses and other facilities subjected to high explosion risk.
PROPERTIES	<ul style="list-style-type: none">• Prevents the buildup of static electricity on the floor surface• Complies with TRGS 727• Meets EN 61340-5-1 (without the need to apply an additional ESD topcoat)• Exceptional abrasion resistance and resistance to action of water and chemicals (see chemical resistance list);• Easy maintenance
DENSITY	Component A: 1,74-1,78 kg/l; Component B: 1,0 kg/l; Mixture (A+B): 1,56-1,58 kg/l
TECHNICAL DATA	<p>Mixing ratio (by mass): Component A : Component B – 83,3 : 16,7 (100 : 20)</p> <p>Solid content: By weight: ~ 100 % By volume: ~100 %</p> <p>Pot life: 25 min under standard conditions</p> <p>Drying/hardening time under standard conditions:</p> <ul style="list-style-type: none">- dust dry: after cca 12 hours- light foot traffic: after cca 24 hours- full cure: after 7 days <p>Shore D Hardness: ~78 ((7 days, 23°C, 60% RAH);</p> <p>Compressive Strength (EN 13892-2:2003): ~138,6 N/mm²; after 15 days of conditioning (23°C, 60% RAH);</p> <p>Flexural Strength (EN 13892-2:2003): ~36,9 N/mm²; after 15 days of conditioning (23°C, 60% RAH).</p> <p>Adhesion Strength (EN 13892-8:2002): 4,6 N/mm² (100 % cohesive failure in concrete); after 15 days of conditioning (23°C, 60% RAH).</p> <p>Impact resistance (EN ISO 6272-1:2012): 11,25 Nm</p> <p>Abrasion resistance (Taber abraser test, CS 10/1000/1000 g): 60 mg (7 days, 23°C, 60% RAH);</p> <p>Reaction to fire classification accord. to: EN 13501-1: B_{fl}-S1</p> <p>Electrostatic behavior:</p> <ul style="list-style-type: none">• Rg according to IEC 61340-4-1 (resistance to earthing point): <1 x10⁹ Ω• Rg according to IEC 61340-4-5 (system resistance (person/floor/footwear)): <1 x10⁹ Ω• Body voltage according to IEC 61340-4-5: < 100 V
THERMAL RESISTANCE	Continuous exposure: +50 °C; Longer exposure (up to 7 days): +80 °C Short-term exposure (up to 12 hours): +100 °C
APPLICATION CONDITIONS	Substrate and air temperature: min. +10 °C; max. +30 °C Relative air humidity: max. 75 %, with adequate ventilation. There must be no condensation. Pay attention to the dew point.
SUBSTRATE QUALITY	Compressive strength: min. 25 N/mm ² Bond strength (pull-off test): min. 1,5 N/mm ² The surface must be dry and clean. Substrate moisture: max. 4%

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SUBSTRATE PREPARATION	Mechanical treatment (grinding and /or blasting) to remove bumps and weakly bound surface layer and surface contamination. The cracks, pores and uneven sections should be filled with suitable material. Remove dust and loose parts by using a vacuum cleaner or brush. The substrate must be impregnated with FE EP 101 or FE EP 1013 and levelled with the epoxy mortar (FE EP 211M) to obtain a flat uniform surface. Apply FE EP 110W EC to the prepared substrate.																		
MATERIAL PREPARATION	Stir the component A. Then add component B into component A and mix thoroughly with a mixer at a low speed (max. 400 r / min) until a homogeneous mixture. Then pour the mixture into another container and mix again.																		
APPLICATION METHOD	Apply by notched trowel (tooth size S2). Immediately after applying with the notched trowel, roll the surface in crosswise movements with a steel spiked roller to equalize the thickness and purge air. The maximum layer thickness should be 1,5 mm (max. consumption 2,3 kg/m ²). Higher thickness could cause the loss of conductive properties.																		
PROTECTION SYSTEM	<p>Floor expert EP ESD flooring system:</p> <table border="1"><thead><tr><th>Function</th><th>Product</th><th>Consumption</th></tr></thead><tbody><tr><td>Primer</td><td>Floor Expert EP 101 /1013(1x)</td><td>0,3-0,5 kg/m²</td></tr><tr><td>Levelling mortar (option)</td><td>Floor expert EP 211M</td><td>Depending on layer thickness (1,56 kg/m²/mm)</td></tr><tr><td>Earthing</td><td>Earthing kit</td><td>Min. 1 earthing point per 300 m²; max. distance between the two earthing points is 10 m.</td></tr><tr><td>Conductive primer</td><td>Floor expert EP 110W EC (1x)</td><td>0,07-0,1 kg/m²</td></tr><tr><td>Conductive self-levelling screed</td><td>Floor Expert EP 211 AS (A+B)</td><td>Max. 2,3 kg/m²</td></tr></tbody></table>	Function	Product	Consumption	Primer	Floor Expert EP 101 /1013(1x)	0,3-0,5 kg/m ²	Levelling mortar (option)	Floor expert EP 211M	Depending on layer thickness (1,56 kg/m ² /mm)	Earthing	Earthing kit	Min. 1 earthing point per 300 m ² ; max. distance between the two earthing points is 10 m.	Conductive primer	Floor expert EP 110W EC (1x)	0,07-0,1 kg/m ²	Conductive self-levelling screed	Floor Expert EP 211 AS (A+B)	Max. 2,3 kg/m ²
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COLOUR RANGE/GLOSS	Standard offer: RAL 7032, RAL 7030, RAL 7035, RAL 7037, RAL 7040; other shades on request. Carbon fibers have an impact on the visual appearance of shades, especially when it comes to light tones. Glossy																		
LAGERUNG	In dry and airy rooms in originally sealed containers at temperatures from +5°C to +25°C. Shelf life: 6 months																		
NOTES	<ul style="list-style-type: none">• The product can only be applied by experienced professionals.• Carbon fibers inside the finishing layer can cause minor irregularities on the floor surface. This has no effect on the performance of the coating.• Freshly applied system must be protected from moisture, condensation and water for at least 24 hours.• Maximum layer thickness of the final electrostatic dissipative layer should be 1.5 mm (max consumption 2,3 kg/m²). When applied in the thicker layer the conductivity is decreased.• Do not use gas, oil or paraffin or other fossil fuel heaters, because they produce large amounts of CO₂ and water vapor, which can significantly impair the final appearance. For heating use exclusively electrically driven heat blowers.• When installing the floor on a single surface (continuous application), always use the material with the same batch number. Otherwise, slight deviations in the shade may occur.• Epoxy coatings are not stable under UV exposure conditions and are generally not suitable for outdoor application.• Extremely abrasive mechanical loads leave scratch marks and floor wear, which must be considered when applying these coatings.• Before the installation of the ESD flooring system, it is necessary to make test field in the building, measure the electrical resistance values and agree on detailed procedures related to the installation and maintenance of the flooring system.• During the exploitation, the ESD flooring system must be regularly maintained in accordance with the Maintenance Plan. Spilled liquids must be removed immediately. Floor must be cleaned regularly because the grease and dirt deposits reduce the electrostatic dissipative function of the flooring system.																		

Last update: January 2025.

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