EPOFLOOR COAT BC 210

Epoxy-Based, Solvent-Free, Two-Component Intermediate Coat Material

FLOOR SOLUTIONS

Areas of Use

- On concrete and cement-based mineral surfaces,
- In sports halls, shopping malls and restaurants,
- In laboratories and wet-processing areas in the food, chemical and pharmaceutical industries,
- In exhibition halls, museums and office areas,
- In storage and assembly areas,
- In production areas, factories and workshops.

Properties

- It has a high filler acceptance capacity.
- Despite high filler loading, it has excellent flow properties.
- It provides strong bonding and very high adhesion to the layers on which it is applied.
- Solvent-free.
- Compatible with all epoxy systems.
- It has excellent penetration properties.
- Easy to apply.
- Provides a glossy surface.
- Impermeable to liquids.
- Hygienic.
- Resistant to mechanical loads, abrasion and chemicals.

Application

Surface Preparation

Concrete substrates must be clean, dry and free from all foreign matter such as dirt, oil, grease, coatings and surface curing compounds. They must also be sound and have sufficient compressive strength (at least 25 N/mm^2), with a tensile strength of at least 1,5 N/mm^2.

Concrete substrates must be prepared using abrasive equipment to remove cement laitance and obtain an open-textured surface. Weak concrete must be removed, and blowholes and voids must be completely filled. The cleaned surface must be prepared by a suitable mechanical abrasion method such as grinding, sandblasting or sanding to obtain a rough surface.

Dust generated after mechanical cleaning must be removed using industrial vacuum cleaners. Substrate repairs, filling of voids and surface levelling must be carried out with a mortar obtained by mixing 0.1–0.3 mm silica sand with EPOFLOOR PRIMEL 100 primer.

The surface must be primed before applying EPOFLOOR COAT BC 210. EPOFLOOR PRIMEL 100 must be used for priming. Ensure that the entire substrate is covered with primer.

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Application Conditions

The moisture content of the concrete must be below 4%.
Relative air humidity must not exceed 80%.

Care must be taken against dew and condensation.

Dew and water-vapour condensation on untreated or newly coated floors may damage the coating and cause blistering. To prevent this, the temperature of the surface and uncured floor must be at least 3°C above the dew point.

Surface Temperature: Minimum +8°C, maximum +30°C

Ambient Temperature: Minimum +10°C, maximum +30°C

Material Temperature: Minimum +10°C, maximum +25°C

Preparation and Application

Before mixing, Component A must be mechanically stirred on its own. After Component B is poured into Component A, mix for approximately 2–3 minutes using a 300–400 rpm mixer until a homogeneous mixture is obtained. To ensure complete mixing, transfer the materials to another container and mix again for 1 minute. Avoid overmixing to minimise air entrainment.

For all applications in warm ambient or weather conditions, the A+B mixture must be divided into smaller quantities to prevent the risk of premature setting.

Application of the Coating: Pour EPOFLOOR COAT BC 210 onto the surface and spread it evenly with a notched trowel. Then level the surface and pass a spiked roller over it to release entrapped air. The spiked roller must be applied after approximately 15 minutes (at +20°C). If delayed, roller marks may remain on the surface.

Consumption

Consumption varies according to the aggregate size used. For detailed information, please contact the Entegre Technical Department.

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Technical Values

Product Properties	Value
Density	1,65 kg/L ± 3%
Total Solids Content	100%
Additive (Thinning)	Cannot be thinned.

Technical Values	Value	Test Method
Bond Strength	≥ 2,0 N/mm^2 (concrete failure)	TS EN 1542
TABER Abrasion Resistance	≤ 3000 mg	TS EN ISO 5470-1
Capillary Water Absorption and Water Permeability	≤ 0,1 kg/m^2.h^{0,5}	TS EN 1062-3
Impact Resistance	CLASS III	TS EN ISO 6272-1
Shore D Hardness	70 (7 days / 23 °C)	TS EN ISO 868

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Curing Details

At an average temperature of +23°C, the mixture must be used within a maximum of 30 minutes. At +23°C, the waiting time between coats is at least 10 hours and at most 48 hours. If more than 48 hours have elapsed, the surface must be roughened by sanding. The material reaches full cure and attains its mechanical and chemical resistance after 7 days.

Packaging and Storage

- Supplied as a two-component 22,5 kg set (Component A: 18 kg pail; Component B: 4,5 kg pail).
- Available on pallets upon request.
- Under suitable storage conditions, the shelf life is 1 year from the date of manufacture.
- Opened packages must be tightly sealed and stored under suitable storage conditions.
- Store in unopened original packaging in a cool, dry place, protected from frost and direct sunlight.

Warnings

- Do not allow ponding during primer application.
- The freshly applied product must be protected from moisture, condensation and water for at least 24 hours.
- Storage conditions must be taken into consideration during transportation.
- During application, workwear, protective gloves and safety goggles compliant with occupational health and safety regulations must be worn.
- If swallowed, seek medical attention immediately.
- Food and beverages must not be brought into application areas.
- Keep out of reach of children.
- Do not use outside the specified areas of application or contrary to the instructions for use.
- For further information, request the product Safety Data Sheet.
- Please consult us regarding all other application conditions and technical questions.

Certificate of Conformity

Complies with TS EN 1504-2 / April 2008.

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