EPOFLOOR PRIMEL 100

Epoxy-Based, Two-Component, Low-Viscosity, Solvent-Free Primer

FLOOR SOLUTIONS

Areas of Use

- For interior and exterior applications,
- On concrete and cement-based mineral surfaces,
- On normally and highly absorbent surfaces,
- For priming surfaces before the application of Entegre-branded epoxy floor coatings,
- For bonding epoxy-based levelling mortars and mortar coatings,
- Used with aggregate as a filling and repair mortar on surfaces requiring repair.

Properties

- Low viscosity.
- Provides very high bond strength.
- Solvent-free.
- Penetrates the concrete and helps strengthen the substrate.
- Easy to apply.

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 silica sand with EPOFLOOR PRIMEL 100 primer.

Concrete or screed surfaces must be primed and levelled to obtain an even surface.

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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

After pouring Component B into Component A, mix for approximately 2–3 minutes with 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. Before application, confirm that the surface moisture content is below 4% and that no condensation will occur.

As a Primer: EPOFLOOR PRIMEL 100 must be applied by trowel, brush or roller. Ensure that the entire surface is covered without gaps.

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.

As a Repair Mortar: After Components A and B have been mixed, aggregate (silica sand) is added to complete the mixture.

Consumption

Coating System	Product	Consumption
Primer	EPOFLOOR PRIMEL 100	~ 0,3–0,6 kg/m^2

These values are theoretical and do not include any additional material required due to surface porosity, profile, variations in level or wastage.

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Technical Values

Product Properties	Value
Density	1,05 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 II	TS EN ISO 6272-1
Reaction to Fire Class	E	TS EN 13501-1

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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 15 kg set (Component A: 10 kg pail; Component B: 5 kg pail).
- Available on pallets upon request.
- Under suitable storage conditions, the shelf life is 12 months from the date of manufacture.
- Store in unopened original packaging in a cool, dry place protected from frost.
- Opened packages must be tightly sealed and stored under suitable storage conditions.

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.

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Certificate of Conformity

TS EN 1504-2 / April 2008

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