

EP7100 Binder

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Product description

EP7100 Binder is a transparent, solvent-free 2-component epoxy resin-based binder developed for use in both trowel-applied flooring systems and decorative gravel/stone carpet systems. The product can be used as a binder, primer, and first sealing layer within various floor constructions. Due to its low viscosity and good deaeration, EP7100 is easy to apply and suitable for a sleek, seamless end result.

Product details

Packaging size	Set size
3.25 kg	A-component 2.44 kg B-component 0.81 kg
20 kg	A-component 15.00 kg B-component 5.00 kg
Loose component in jerry cans per 20 kg	
Loose component in drums per 200 kg	
Loose component in IBC per 1000 kg	
20 kg	
Appearance	Glossy
Colour	Transparent
Shelf life	12 months after the production date when stored at normal temperature (15 °C). See more under <i>storage</i>

Product features

- Glossy appearance
- Seamless and liquid-tight
- Simple application
- Good ventilation
- Increase wear resistance by adding sand
- Solvent-free
- Easy to clean
- Good coverage
- Good mechanical load capacity

Areas of application

- Binder for trowel floors
As a resin component in trowel mortar (filled with suitable aggregates)
For wear-resistant, heavily loaded floor finishes in workshops and technical rooms, among others.
- Primer / bonding layer
As a primer on mineral substrates such as concrete and cement screeds.
For dust binding and creating a good adhesion bridge for subsequent layers
- First sealing layer / pore filling
As the first sealing layer over troweled or decorative gravel layers
For stabilizing and sealing the surface as a base for a subsequent seal/topcoat.
- Decorative gravel / stone carpet (binder)
As a binder in decorative gravel systems (indoors and, depending on the system structure, also lightly loaded zones with daylight) For a bright, transparent appearance in which the stone aggregate remains optimally visible

Technical specifications

Similar mass (density)	1.09 kg/d m ³
Mixing ratio	75.0 A Weight 25.0 B Weight
Consumption (primer)	150 to 250 g/m ² per layer. Consumption depends on the subsoil. With the addition of sand, this is 300 to 500 g/ m ² .
Processing time	Approximately 30 minutes. *
Dust dry	After 8 hours *
Walkable	After 4 PM *
Recoatable	After 16 hours, apply the next layer within 36 hours.
Fully loadable	7 days
Adhesion strength (n/mm ²)	>1.5
Viscosity (mPa.S)	1000 – 1100
Shore Hardness	>D80

At normal temperature of 20°C.

Product processing conditions

Subsurface temperature	Minimum 10°C, maximum 30°C, Optimal 20°C
Ambient temperature	Minimum 10°C, maximum 30°C, Optimal 20°C
Subsurface moisture content	Moisture < 4%
Relative humidity	Maximum 75% RH
Dew point	at least 3°C above the dew point. Complete curing cannot occur with large temperature fluctuations towards the freezing point.
Pay attention	These conditions apply to both the processing and curing of the product. Ensure adequate ventilation in the room.

Work and environmental protection

Solvent-free. Non-flammable. Component A: Contains epoxy resin: Irritant. Component B: Contains amine hardener: Corrosive.

Both components: Irritation or burns of the eyes, respiratory organs, and skin possible.

Sensitization is possible through skin contact. In case of contact with skin, wash immediately with plenty of water and soap. In case of contact with eyes, rinse immediately with water and consult a doctor. Wear suitable protective gloves and safety glasses during handling. Environmentally hazardous in liquid state; therefore, do not allow to enter the sewer, open water, or soil. Hazard/safety instructions on the can label and the Safety Data Sheet must be observed, among others. After curing, odorless and ecologically and physiologically safe.

Removal of material

Uncured product residues. Do not allow to enter sewers, open water, or soil. These uncured components are chemical waste. Cured components are classified as construction waste.

Storage and shelf life

The product must be stored dry at temperatures of a minimum of 10 and a maximum of 25 degrees. Under these conditions, the shelf life of an unopened package is at least 12 months. Very rarely, crystallization may occur in the epoxy resin at low temperatures; this crystallization can be easily reversed by heating the package and its contents before use.

Cleaning

The primer can be easily cleaned with a cleaning agent of your choice. This cleaning agent must not be corrosive or undiluted cleaning agents that are applied directly to the floor. In all cases, test whether your cleaning agent damages the floor by applying it to a small section of the floor.