

EP3422 Cast coating

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Product description

The 3422 Cast Coating is a two-component, solvent-free floor system based on epoxy resin. The coating forms a smooth, seamless layer with high chemical and mechanical resistance and is available in virtually all RAL and NCS colors. Thanks to its balanced viscosity, self-leveling properties, and strong wear resistance, this product is ideally suited for use as a durable 1 mm cast floor system.

Why a 1 mm cast floor with 3422?

A 1 mm cast floor based on the 3422 combines durability with efficient material use. This layer thickness provides a strong, liquid-tight, and low-maintenance finish without excessive consumption. The cast layer distributes evenly over the substrate, fills minor irregularities, and creates a robust, seamless top layer that remains resistant to mechanical stress and chemical influences for a long time. This results in a slim yet highly durable floor structure, suitable for both renovation and new construction.

Product details

Packaging size	Set size
25 kg	A-component 21.25 kg B-component 3.75 kg
Appearance	Glossy
Colour	The floor coating is available in most RAL and NCS colors. Ask about the possibilities.
Shelf life	12 months after the production date when stored at normal temperature (15 °C). See more under <i>storage</i>

Product features

- Seamless, liquid-tight finish
- High chemical resistance
- Very good mechanical load capacity
- Self-leveling for a smooth 1 mm casting layer
- Solvent-free
- Wear-resistant and durable
- Easy to clean and maintain
- Suitable for optional anti-slip finish

Areas of application

system structure is taken into account in all application areas .

- Workshops and warehouses
- Production halls
- Technical rooms
- Garages and parking facilities
- Showrooms
- Office spaces
- Logistics environments
- Areas where chemical load capacity is desired

Technical specifications

Similar mass (density)	1.59 kg/d m ³
Mixing ratio	87.0 A Weight 13.0 B Weight
Consumption	600-3000 grams per m ²
Processing time	Approximately 40 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)	1500 – 1900
Shore Hardness	>D80

At a 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 may not occur with large temperature fluctuations towards the freezing point.
Pay attention	These conditions apply to both the processing and curing of the product.

Work and environmental protection

Storage and shelf life

Solvent-free. Non-flammable. Component A: Contains epoxy resin. 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.

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.

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.

Cleaning

The cast coating can be easily cleaned with a cleaning agent of your choice. This cleaning agent must not be corrosive or consist of undiluted cleaning agents 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.

System structure

Pos.	Alt.	Product	Product/processing information	Consumption grams per m ²
1			Substrate preparation: Dust-free concrete blasting, sanding cement screeds.	N/A
2		EP1560 Putty EP4100 Skirting mortar white	Sealing cracks and/or small holes. Filling large holes and/or installing baseboards.	N/A N/A
3	Or pos 5.	EP1100 Primer of EP1200 Primer	Primer for absorbent surfaces ensures higher adhesion. Thickened primer with filling capacity for uneven floors.	100 to 250 150 to 400
4		EP3422 Cast coating OMV	Apply solvent-free epoxy cast coating with a trowel, optionally rolling over with a nylon roller.	600 to 3000
5	Optional	PU5700 or PU5100 or PU5250	Transparent top seal with a HARD matte appearance. Colored top seal with a matte finish Transparent top seal for high chemical resistance	100 to 125 100 to 125 90 to 110

Anti-slip alternative

The EP3422 coating can be mixed with epoxy anti-slip granules in two grades: fine and coarse.

Grain size	Kind	Addition	Processing
Anti-slip grit 0.1 - 0.4	Fine	Add 10% while mixing to total A+B	Apply the anti-slip coating with a trowel and then roll it out with a nylon roller for epoxy coatings.
Anti-slip grit 0.4 - 0.8	Course	Add 10% while mixing to total A+B	Apply the anti-slip coating with a trowel and then roll it out with a nylon roller for epoxy coatings.