EN

Epoprime EB 712

Construction Chemicals > Primers and Adhesion Promoters > Epoxy Based Primer

Epoprime EB 712 is an epoxy-based, solvent-free, two-component, low-viscosity primer that can penetrate concrete and cement-based surfaces, making it an ideal moisture-tolerant, filler-free primer.

Fields of Application

- Suitable for all interior and exterior areas
- Can be mixed with silica aggregate (with suitable gradation) to be used as filler and repair mortar
- Used under epoxy-based floor coatings
- Used under polyurethane and polyurea-based floor coatings and waterproofing materials

Advantages

- Solvent-free
- Low viscosity
- Forms a barrier on the applied surface, preventing moisture passage
- Can be used as a filler primer with the addition of suitable aggregate in its ready-mix ratios
- Provides excellent adhesion to screed and concrete surfaces
- Can be easily applied on moist surfaces without standing water (max 5%)
- Resistant to petrochemical chemicals

1 Surface Preparation

The surface to be applied must be free of oil, dirt, and old paint. Cracks should be filled. Ensure the relative humidity is not over 85%, the surface to be applied is not wet, and there are no standing water puddles. The moisture content of the ground should not exceed 5%.

2 Mix Preparation

Both components are packaged according to ideal mixing ratios. Add 5 kg of Component B (hardener) to 10 kg of Component A (epoxy resin) and mix with a drill mixer at 400-600 rpm until a homogeneous consistency is achieved for 2-3 minutes. Do not mix by hand. If filling is required to correct surface defects, silica sand can be added to the mixture in ratios ranging from 1:1 to 1:5 as needed after mixing is complete.

3 Application

Apply the EB 712 epoxy primer mixture to the surface with a roller, squeegee, or by scraping with a zero comb.
Note: In epoxy coating applications, apply the primer with a roller first, then use a zero comb to spread the product mixed with silica in a 1:1 ratio over the surface. Before the surface dries, sprinkle dry silica with a thickness of 0.1-0.3 mm over it, and allow it to dry, usually for one day. Once dry, sand the surface with a machine and vacuum up the excess sand, preparing the surface for coating.

4 Precautions

- Avoid application at temperatures below +10°C and above +30°C. Concrete temperature should not exceed 45°C.
- If the ambient temperature exceeds 35°C, apply quickly and reduce the amount of mixture prepared at one time.
- Do not add water, solvent, thinner, etc., to the mixture.
- The working and curing times of epoxy resin-based products depend on the ambient and surface temperatures. At low temperatures, viscosity increases, consumption increases, and reaction time lengthens. At high temperatures, viscosity decreases, and working time decreases.
- Avoid application in areas that are frozen, at risk of freezing within 24 hours, or exposed to direct sunlight and wind.
- After application, do not touch the surface for at least 24 hours and avoid water contact.

5 Storage Life

Can be stored for 6 months in its original unopened packaging in a cool and dry environment (10°C-35°C). Keep lids closed and protect from direct sunlight and frost.

6 Packaging

15 kg set (Component A: 10 kg metal bucket - Component B: 5 kg metal bucket)

7 Consumption Amount

250 - 450 g/m^2 (Varies depending on the surface condition.) In filler applications, consumption can reach up to 500-800 g/m^2.







TECHNICAL DATAS

Material Composition	
Component A	Epoxy resin
Component B	Hardener
Appearance	
Component A	White transparent liquid
Component B	Brown liquid
Mixing Ratio	
Component A	10kg
Component B	5kg
Mixture Density	~1,07 kg/l±0,03
Viscosity	800 ± 100 mPas (25°C)
Application Temperature	(+10°C) - (+30°C)
Adhesion Strength	≥ 2.5 N/mm² (7 days) (EN 4624)
Compressive Strength	≥ 70 N/mm² (7 days)
Elongation at Break	%4
Mixing Pot Life	~25 minutes at 23°C
Walkable Time	20 hours
Touch Dry Time	3 hours (Varies with air temperature)
Full Cure Time	7 days
Shelf Life	6 months if unopened and protected from frost