

# Chelfix EP 6100

Chemical Resistant Epoxy Based, Protective Coating

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## Product Description

Chelfix EP 6100 is an epoxy-based coat that can be applied on concrete, metal, wood, plaster and gypsum surfaces which's chemical resistance two component coating material.

It is a protective coating against wide range of aggressive chemicals, oils, fuels, sea water and sewage.

## Areas of Application

- Indoors and outdoors.
- Intake channels, culverts and canals
- In permanently wet places, in areas where chemical substances are used.
- Industrial flooring areas including warehouses, food processing area, paper-mills and car parking.
- It is used on materials such as parquet, tile, ceramic, granite ceramic, mosaic, glass mosaic and porcelain.
- Roofing applications and sub-structural waterproofing.
- As chemical resistant gas and vapor barrier coating on walls.
- Silos & tanks.
- Sewage & sludge aeration & sedimentation tanks.



## Advantages

- Excellent chemical and mechanical resistance.
- Excellent abrasion and impact resistance.
- Suitable for walls, ceilings and floors.
- Easy to apply, can be applied using roller, brush, and airless spray.
- Excellent bond to a variety of substrates and building materials.
- Solvent Free that can be used indoors and outdoors area.
- Water impermeable, Resistant to frost.
- Long service life.
- Liquid proof.
- Hygienic, suitable for cleaning.
- UV and weather resistant.
- Flexible with crack bridging ability up to 2 mm.

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## Technical Data

Property:	
Chemical Structure	Based on Epoxy Resin
Color	Requested RAL Colors
Mixing Density	Density: 1.45±0.10 (g/ml)
Application Time	40 minutes (may vary with weather conditions)
Mixing Ratio	16.53 Part A: 3.47 Part B (by weight)
Pot Life	~30 minutes (at 20°C)
Adhesion to Concrete	> 4 N/mm <sup>2</sup> (Concrete Failure) (TS EN4624)
Wear Resistance	~60-70 mg (CS 10/1000/1000) (DIN53109)
Full Strength	7 days

## Application Instructions

**Surface Quality:** The surfaces to be applied should be solid, clean, dry, and free from any foreign materials that may cause peeling.

**Surface Preparation:** Surface irregularities should be smoothed out and any hollows should be filled.

**Mixing:** Chelfix EP6100 is a two-component product. It is prepared by mixing components A and B, which consist of hardener and resin respectively, in a balanced proportion with a slow-speed mixer until a homogeneous mixture is obtained. Mixing should continue until homogeneous.

## Application Notes / Restrictions

- During self-application, fill to the required level and level with a trowel. The mixture should then be combed with a spiked roller.
- Prior to applying Chelfix EP6100, surface preparation should be carried out using an appropriate Chelfix epoxy-based primer.
- Do not use the material below the minimum allowed temperature for completion of the hardening process. Lower temperatures will slow the hardening, while higher temperatures will accelerate it. The pot life will vary depending on the temperature.
- The product can cause skin irritation. Protective gloves and goggles should be worn. Apply protective cream to hands before starting work. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- If the product remains below 0°C for an extended period, crystallization may be observed. If the crystals dissolve when brought back to room temperature, the product can be used without any issues.
- Products that harden under direct sunlight (UV) may experience color fading and yellowing.

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- After application, protect from direct sunlight, strong winds, high temperatures (above +35°C), rain, and other adverse weather conditions. The reaction will complete shortly after application, and before the hardening finishes, any areas of skin contact should be washed with water and detergent.
- Immediately after application, before the product has hardened, clean the equipment with Chelfix Thinner.

### Consumption

0.250 - 0.300 kg/m<sup>2</sup> per coat.

### Packaging

Chelfix EP6100 is available in 5 and 20 Kg sets.

### Disposal

Empty packings can be disposed to collection bins according to regional/local regulations or recycling rules. Dispose used waste materials as construction waste materials after drying and hardening. It is dangerous to dispose by burning the product remnants.

### Safety Information

Keep the products out of reach of children. Keep the lids of the products closed. It is recommended to use gloves and goggles during application. In case of contact with skin, wash immediately with soap. In case of contact with eyes, immediately consult a doctor. For more information, please refer to the material safety data sheet.

### Storage

Chelfix EP6100 has a shelf life of 12 months from date of manufacture (in dry condition and room temperature) in unopened packs.

### Fire

Chelfix EP6100 is nonflammable .