

# Chelfix EP3000

Epoxy Based, Two Component, Low Viscosity Primer

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## Product Description

Chelfix EP 3000 is a two component, solvent free, epoxy resin that does not contain fillers.

## Areas of Application

- Lining concrete surfaces, cement screed and epoxy mortars.
- As a primer epoxy coat On normal, hot surface, moist and wet surfaces.
- As a binder for epoxy based levelling mortar and mortar coverings.
- As a primer before all epoxy and polyurethane floor coverings.

## Advantages

- Excellent bond strength to concrete, brickwork, and masonry.
- Has a good penetration properties.
- Can be used in damp or dry conditions.
- Low creep.
- Non-shrink.
- Exhibit good chemical resistance.
- Excellent mechanical properties, high tensile and tear strength, highly abrasion resistance with resistance to pedestrian and light vehicle traffic when used as a primer epoxy coat.
- Easy to implement.
- Waiting times are short.

## Consumption

- Primer : 300-500 gram/ m<sup>2</sup>
- Bedding Morlar: 1.4 - 1.6 kg/ m<sup>2</sup> / mm (Quarlz sand varies depending on the amount).
- Repair Morlar : 2.0 – 2.2 kg/ m<sup>2</sup> / mm (Applications using quarlz sand up to 10 times by weight).

## Storage

Chelfix EP3000 has a shelf life of 12 months from the date of production in its original packaging.

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## Technical Data

Technical Properties :	
General Information	
Chemical Structure	Solvent free Epox
Color	Transparent Yellowish Liquid
Application Information	
Mixture Density	1.10 ± 0.02 g/ml (EN ISO 2811-1)
Pot Life	>30 minutes (it depends on the weather conditions)
Waiting Period Between Layers	Min 24 hours, max 3 days (+20°C)
Mixture Ratio	2 Component A : 1 Component B (Weight)
Full Strength	7 days (+20°C de)
Surface/Environment Temperature	Min + 10°C / Max +30°C
Surface Humidity Content	< 4% (Weight)
Relative Humidity	It should be max %80
Performance Information	
Bending Resistance (7 days)	≥ 30 N/mm <sup>2</sup> (TS EN 196-1)
Compressive Resistance (7 days)	≥ 75 N/mm <sup>2</sup> (TS EN 196-1)
Concrete Adhesion Strength	≥ 4 N/mm <sup>2</sup> (from concrete) (TS EN 4624)
Steel Adhesion Strength	< 3 N/mm <sup>2</sup> (TS EN 4624)
Shore D Hardness (7 days)	83
Thermal Strength	Continuous: +50°C Max 7 days: +80°C
Technical information is approximate value obtained from the Chelfix Construction Chemicals Laboratory works and are valid for the performance of the finished product in 27 days, which are obtained at +20°C temperature and 50% relative humidity rate.	

## Application Instructions

**Surface Preparation:** The application surface should be free of all kinds of dust, dirt, weak and friable particles, cement sherbet residues, oil and grease and dry. Concrete substrate must be clean, robust and sufficiently Compressive Resistance (at least 25 N/mm<sup>2</sup>), tensile strength (pull off) at least 1.5 N/mm<sup>2</sup>. Application surface, to ensure maximum adhesion resistance, pressurized air holding, etc. it must be cleaned using methods.

**Mixing:** After adding component B to component A, mix it for 2-3 minutes until it has a homogeneous color (up to 400 RPM) with a low speed electric stirrer. Make sure that a continuous, nonporous layer is covered by the surface. If necessary, apply two storey of primer. Chelfix EP 3000 NB can be applied with brush, roller or spray gun. Immediately after application, tools should be cleaned with Chelfix Thinner without hardening. Hardened product can only be mechanically cleaned.



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## Application Note/Restrictions

- Do not use it below the permitted minimum temperature to complete the hardening of the material. Low temperatures will slow hardening and high temperatures will speed hardening. Pot life will vary depending on the temperature.
- The floor temperature without curing should be at least 3°C above the condensation point.
- The product may cause sensitization by skin contact. Protective gloves, mask and goggles should be worn. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- From +5 °C and below the product stored for a long time can be observed crystallization. If the crystals are dissolved, the product can be used without any problems by returning to room temperature.
- Color losses can be yellowing of the product, which is hardened due to direct sunlight (UV).
- In areas where water clear color and long term UV resistance is expected, Chelfix EP 3500 should be used.

## Packing

Chelfix EP3000 is available in 15 and 6000 Kg / Set:

A Component: 10 Kg can A Component + 5 kg can B Component

A Component: 400 Kg A Component + 200 kg B Component

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