

Chelfix EP - AD

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Product Description Chelfix EP- AD is a solvent free, high performance, long potlife, flowable consistency epoxy bonding agent, applied by brush or pouring.

Areas of Application

- Structural bonding of new to old concrete.
- Steel bonding.
- Grouting dowels.

Advantages

- High bond strength.
- Adheres to wet or damp surfaces – Wide application area.
- It provides excellent adherence between old and new concrete.
- The tensile and adhesion strength values obtained after application are higher than the tensile strength of concrete.
- Solvent free – Low VOC and non-shrink.
- Pre-proportioned packaging – No job site errors.
- Multi-purpose binder – Many uses.
- Low viscosity – Easy to apply as primer.
- High abrasion and chemical resistance – Can be used as wearing surface.

Application Instructions

The surfaces must be clean, smooth, solid, free from any antiadhesive substances such as dust, oil, dirt, rust, mold oil, detergent and waste. Weak part should be removed. Steel surfaces must be sandblasted to be removed from dust. The sides of the fractured surface should be cut as perpendicular as possible, the rust on the reinforcement should be cleaned, and new reinforcement should be added if necessary. In case of water flow on the surface, it must be drained or closed with a suitable plug.

Mixing: Chelfix EP-AD A component is added on the Chelfix EP- AD B component in a clean container which is free from all kinds of substances which prevent adhesion. The product is mixed with a low speed mixer until a homogenous mixture is obtained. Care should be taken not to leave unmixed material on the edges of the packaging and on the bottom of the packaging, and the duration of the mixing should be at least 5 minutes. After mixing, Chelfix EP- AD is applied to the pre-cleaned and moistened surface by brush or roller. After Chelfix EP- AD is applied, new concrete should be poured or repair mortar should be applied between 5-30 minutes depending on the weather temperature.

Application Notes/ Restrictions

- The product may be irritating to the skin; work clothes, protective gloves, masks and glasses must be used. Protective cream can also be applied before starting works. In case of contacting with eyes, eyes should be washed immediately with warm water and consult a doctor.
- The operating and reaction times of resin based systems are affected by ambient and substrate temperature and relative humidity in the air. At low temperatures, the chemical reaction slows down, extending the duration of use and the working time. Higher temperatures accelerate the chemical reaction and the above times are shortened accordingly. In order for the material to complete its cure, the ambient and surface temperature must not fall below the minimum allowable temperature.
- If it takes more than 2 hours to process the prepared Chelfix EP- AD, the mixture should be prepared and applied again.
- Defects in the hardened product exposed to prolonged exposure to direct sunlight (UV) may cause yellowing.
- It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +35°C), rain and frost. The product should be cleaned thoroughly with water and detergent before it is fully cured and hardened.
- During the application, no solvent should not be added in the mixture.

Technical Data

Properties	
Color of Mixture	Grey
Density of Mixture	1.50 + 0.05 kg/lit
Application Information	
Pot Life	~ 45 min. (+20 °C)
Application Temperature	(+5 °C) - (+40 °C)
Mixture Ratio	A:B =8.0 / 2.0
Performance Information	
Pressure Resistance (TS EN 196)	3 days : > 40 N/mm ² 7 days : > 60 N/mm ²
Bending Strength (TS EN 196)	3 days : > 20 N/mm ² 7 days : > 30 N/mm ²
Bond Strength (7 days TS EN 196)	To concrete: > 3.0 N/mm ² To steel : > 3.5 N/mm ²
Heat Strength After Hardening	(-20 °C) - (+ 60 °C)
Full Curing	7 days
Mixture Ratio	4 Units of A component, 1 Unit of B component (mass ratio)

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 air humidity rate.

Consumtion Approximately 1.6 kg/m² for 1 mm thickness

Cleaning Immediately after application, before hardened, the equipment should be cleaned with Chelfix THINNER. After the product is hardened, it should be cleaned mechanically.

Packing Chelfix EP- AD is available in 1 and 5 Kg packs.

Storage Chelfix EP- AD has a shelf life of 12 months from date of manufacture if stored in unopened original packaging at temperatures between 5°C and 40°C.