

## Chelfix R200 Ex

Cement Based Thixotropic, Non-shrink Fine Repair Mortar



R3 Class

Public Pos. No: 04.613/3A

**Product Description** Cement based, one component structural fine repair mortar with no shrinkage, fiber reinforced, polymer additive, increased strength and flexibility

### Areas of Usage

- It's used in construction of all kinds of concrete after the mold is taken to repair the concrete,
- In all kinds of industrial reinforced concrete structures,
- In engineering structures such as metro, highways, dams,
- In repair, repair and reinforced concrete projects,
- In filling air bubbles and gaps,
- On the surfaces with thick repair mortar,
- In the columns, beams and rod holes,
- In the repair of prefabricated elements.

### Features and Benefits

- Easy to be applied.
- Benefits Suitable for spraying and trowelling.
- It is resistant to freezing and thawing.
- It is not corrosive or poisonous.
- It is used to obtain a smoother surface in thin repairs.

### Application Instructions

**Surface Quality:** The surfaces must be clean, smooth, solid, free from any antiadhesive substance such as dust, oil, dirt, rust, mold oil, detergent and waste. Weak parts on the surface should be removed.

**Surface Preparation:** Cement slurry and weakened parts should be removed, and there should be no materials such as oil dirt and rust on the surface. Absorbent surfaces must be pre-wetted, but there should be no water droplets or drops.

When adherence primer is required, CHELFIX AD is applied by brush and CHELFIX R200 EX repair mortar is applied on the surface before drying.

**Mixing:** 4 - 5 lt clean, clear water received from normal ambient temperature into a clean container which is free from all kinds of materials which prevent adhesion. CHELFIX R200 EX in 25 kg bag as powder is poured into a container filled with water. The product is mixed with a low speed mixer until a homogeneous mixture without lumps is obtained. Mixing time should be minimum 5 min. The mortar obtained at the end of the process should be rested for 3 min. and mixed again until it becomes homogenous for 2 min. After the material has entered the reaction, it should not be mixed again with water.

### Application Notes / Restrictions

- For outdoor applications, the first 1 hours of sunshine should be protected from rain and frost.
- In cement based products, reaction times are affected by ambient and ground temperatures. Reaction times are shortened in a hot environment, and extend in a cold environment.
- Hot water should be used in cold conditions. In hot environments, iced mixture water should be used.
- Do not add too much water as recommended.
- During the application of the product, work clothes suitable for occupational health and safety rules should be worn and appropriate glasses and masks should be used.

- The prepared mortar is applied to the surface with a trowel. If necessary, clover is applied to ensure surface smoothness. Applications with wall thickness over 30 mm should be done in coats.
- 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.
- Immediately after application, before hardened, the equipment should be cleaned with water. After the product is hardened, it should be cleaned by mechanical methods.

## Technical Data

General Information	
Appearance	Grey
Shelf Life	12 months in unopened package in dry environment
Package	25 kg kraft bag
Application Information	
Application Temperature	(+5°C) - (+35°C)
Mixture Ratio	4 - 5 lt water/25 kg powder
Pot Life	Min. 20 min.
Time to Put into Service	1 day
Application Thickness	Max. 30 mm (single coat)
Performance Information	
Flexural Strength (EN 12190)	≥ 8,0 N/mm <sup>2</sup>
Concrete Adhesion Strength (EN 1542)	≥ 1,0 N/mm <sup>2</sup>
Compressive Strength (EN 12190)	≥ 35,0 N/mm <sup>2</sup>
Limited Shrinkage (EN 12617-4)	≥ 1,5 N/mm <sup>2</sup>
Capillary Water Absorption Value (EN 13057)	≤ 0,5 kg/m <sup>2</sup> h <sup>0,5</sup>
Hazardous Substances	See the safety data sheet.
Fire Response	A1

## Consumption Table

Chelfix R200 Ex	Mixture Density (kg / lt)	1 mm/ 1m <sup>2</sup> Powder Consumption (kg)	Mixture Water Amount (lt)
25 kg kraft bag	~2,1	~1,8	4-5