

# Plate Fix EB 460

Construction Chemicals > Repair Mortars > Epoxy-Based

This is a two-component, solvent-free, epoxy resin-based, thixotropic adhesive and correction paste, specifically developed for bonding and leveling carbon strengthening plates.

## ■ Fields of Application

- For bonding carbon plate materials
- For repairing and bonding all types of materials such as concrete, stone, and marble

## ■ Advantages

- It is a material that is very easy to apply
- It is impermeable to water and gas
- It is used on vertical and overhead surfaces
- It is resistant to chemicals and abrasion
- It adheres perfectly to concrete, wood, and steel
- It has high mechanical properties
- It does not contain solvents

## 1 Surface Preparation

The application surface must be free from all dust, dirt, weak and loose particles, cement slurry residues, oil, and grease, and must be dry. The concrete substrate should be solid and have sufficient compressive strength (at least 25N/mm<sup>2</sup>) and tensile strength (pull-off) (at least 1.5N/mm<sup>2</sup>). Damaged and weak parts should be repaired using REPOC EB 456 to create a smooth surface.

## 2 Preparation of Mortar

The product is two-component, and it is recommended to mix only the amount that will be consumed, taking into account the pot life of the mixture. Excess mixtures will become unusable after the pot life has expired. After component B is added to component A, it should be mixed with a low-speed, electric mixer for 2-3 minutes (300 rpm) until a homogeneous color is obtained.

## 3 Application

When performing the mixing and application process, use rubber gloves and safety goggles to protect your skin and eyes from exposure. Do not add any foreign substances or water to the product. In extremely hot weather, the mixture will harden quickly, so only the amount needed should be mixed. The product should not be applied at temperatures below +5°C. The Plate Fix EB 460 epoxy paste is applied to the concrete surface with a spatula. The carbon plate is then bonded to the Plate Fix EB 460 on the surface, ensuring no air gaps by pressing by hand. During this process, a roller should be used to ensure that any excess paste is squeezed out. The same procedure should be applied uniformly across the entire surface to ensure the epoxy paste rises to the upper surface.

## 4 Consumption

3 - 4 kg per 1 m<sup>2</sup> of plate bonding.

## 5 Storage Life

Can be stored for 12 months in unopened original containers in dry environments at temperatures between 5°C and 25°C.

## 6 Packaging

Component A: 2.5 kg

Component B: 2.5 kg It is produced in metal containers.



## TECHNICAL DATAS

Color	Grey
Density	1.75 + 0.05 g/cm <sup>3</sup> ASTM D1475 / DIN 53217 / ISO 2811 @20
Application Temperature	(+5°C) - (+35°C)
Mixing Ratio (by Weight)	100:100
Pot Life	30 min
Solid Matter	100%
Adhesion to Concrete	>4N/mm <sup>2</sup> EN 1542
Adhesion to Steel	>3,5 N/mm <sup>2</sup> EN 1542
Compressive Strength	90 N/mm <sup>2</sup> TS EN 196-1
Bending Strength	25N/mm <sup>2</sup> TS EN 196-1
Tensile Strength	30 Mpa TS EN 196-1
Reaching Full Strength	7 days

### Health and Safety Measures

- During application, flammable, combustible, and ignitable products should be kept away.
- Smoking is prohibited.
- Ensure continuous ventilation of the application area.
- Protective equipment such as goggles and gloves should be worn during application.
- In case of eye contact, rinse thoroughly with plenty of water.
- For detailed information, please request the Material Safety Data Sheet (MSDS).
- Keep out of reach of children.
- The product should be used by professional users, considering the data provided in the technical information section.

**Note:** The technical data and application methods provided above are based on tests and applications conducted within the company. It should be considered that the conditions of the substrate, weather, and humidity may vary during application.