

weber EP bond

Solvent free epoxy based repair, anchorage and fitting mortar

Technical Data Sheet

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■ Description

Two component, solvent free epoxy resin based repair, anchorage and fitting mortar.

■ Advantages

- Easy mixing and application
- Applicable at vertical with its thixotropic formation
- Perfect adherence to steel and concrete
- Perfect adhering of waterproofing tapes and similar products
- High mechanical performance
- Perfect protection of reinforcement bars against corrosion
- Chemical resistance

■ Range of application

Interiors and exteriors of all buildings;

- Adhering of concrete elements, iron, steel and similar metals, **weber superflex dilatation tapes**, wood and glass types.
- Reinforcement application for concretes in cases of strengthening or extra construction.
- Applicable as a repair product for corner and edge repairs and hole and hollow fillings on various substrates.
- Fittings processes to be subject to heavy and medium load.
- Fixing injection packers, isolation of stable cracks
- Fixing of bolts and dubbels.

■ Application properties

Mixture Ratio:

- A Component (resin): 3 Unit
- B Component (hardener): 1 Unit
- Pot Life : ave. 60 minutes
- Density : 1,80 ($\pm 0,05$) kg/dm³
- Duration to open service : Ave 12 hours
- Duration for full hardening: 7 days

■ Performance

- Compressive Strength (TS EN 196-1) ≥ 60 N/mm² (after 7 days).
- Flexural Strength (TS EN 196-1) ≥ 25 N/mm² (after 7 days).
- Adhering Strength:
Metal Substrate: 3,5 N/mm² (after 7 days).
Concrete Substrate: 3 N/mm² (after 7 days).

■ Attention points

- No foreign object should ever be added. It should be prepared according to the mixing ratio stated until the homogenous state is achieved.
- The pot life changes according to the air temperature. Especially at hot temperatures the amount which could be applied in the limited time, should be prepared and applied.

- The performance might change according to the substrate strength, consistence and porosity. For the demanded performance, pre application should be done before real application.
- During the application of **weber EP bond** the environment should be well-ventilated and should not be high humid.
- Do not expose to sun light directly.
- While applying **weber EP bond**, use protective gloves and goggles, avoid eye and skin contact. In case of eye or skin contact, wash with plenty of water immediately and consult a doctor.
- All tools used for application should be cleaned up with thinner water before they dry.

■ Preparation of substrate

For Repair Usage;

- The substrate should be dry, clean, smooth and strong free from dust, dirt, oil, bitumen and weak particles shall prevent adherence.
- If cracks and cavities need to be repaired, cracks and cavities should be expanded before the application and cleaned with compressed air.
- Substrates, cracks and cavities to be repaired should be primed with epoxy primer. Next process should start when the material is still sticky.
- Considering the application time, certain amount of material should be prepared in accordance to mixing ratio. The components are packed in right proportion to each other.

For anchoring reinforcement bars;

- The application substrate should have 30 N/m² concrete pressure strength and upper surface of concrete should have 1,5 N/m² adherence strength.
- Anchorage hole should be clean, dry, free from products such as oil, grease, etc.
- The application reinforcement should be clean, free from rust and it should have loading carrying capacity desired.
- The diameter of hole for correct as 1,1 and 1,25 times the depth of anchorage hole depth (embedding depth) should be prepared with drill at 10 times of anchorage bar diametes.

■ Conditions of application

- The ambient temperature: between +5 °C and +35 °C

■ Application

- A and B components should be mixed for 3-4 minutes until the homogenous state is achieved with low-speed mixer.

- It should be applied by trowel or spatula when the primer is wet on the substrate.
For anchoring reinforcement bars;
- The material mixed homogeneously should be poured into the holes which was prepared with necessary diameter and depth. 2/3rd of the depth should be filled.
- The reinforcement to be applied should be placed in the hole carefully by rotating slowly.
- You should observe whether the material over flows.

■ Consumption

Ave 1,7 kg/m²
(For 1 mm thickness).

■ Color

Light grey (After mixing).

■ Packaging

weber EP bond: 5 kg
(2 componend combinend tin package).

■ Application tools

Hand mixer, steel trowel and spatula.

■ Shelf life

1 year as of the production date between +5 and +30 °C in dry and moisture-free environment provided that packages will not be opened.
Package should be kept tightly closed when not in use.
Do not expose it direct sun light.

FOR INFO

- > The stated times apply for 20 °C substrate and ambient temperature and increase at lower temperatures and decrease at high temperatures.
> **Saint-Gobain Weber Yapı Kim. San. ve Tic. A.Ş.** is not responsible for the application errors arising from use of product beyond its intended purpose or failure to comply with the foregoing application conditions and advice on the product.



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