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

Referance standards

TS EN 1504-3
Bayındırlık Poz No 10.300.2155

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
- Adhering of **weber superflex dilatation tapes**
- 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
- Fitting processes to be subjected to heavy and medium loads
- Fixing injection packers, isolation of stable cracks
- Fixing of bolts and dubels

Application substrates

- Concrete, prefabricated concrete,
- Metals such as iron, steel etc.
- Wood
- Glass

Please consult us for all other application substrates.

Preparation of substrates

For repair usage:

- The substrate should be dry, clean, smooth,strong and free from dust, oil, dirt, bitumen and weak particles which 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 ve primed with epoxy primer. Next step should be start when the primer is sticky.
- Considering the application time, certain amount of material should be prepared in accordance to mixing ratio.

For anchoring reinforcement bars:

- The application substrate should have 25 N/mm^2 concrete compressive strength and upper surface 1.5 N/mm^2 pull-off strength.
- Anchorage hole should be clean, dry and free from contamination.
- The reinforcement bar should be clean, free from rust and it should have enough capacity to carry design loads.
- For proper anchorage, the diameter of the hole should be 1.10 to 1.25 times the diameter of the anchorage bar. The anchorage depth (embedment depth) should be prepared using a drill to a depth of at least 10 times the diameter of the anchorage bar (or embedded

Application conditions

- Ambient temperature between +5°C and +30°C.
- Avoid application in extremely hot and/or damp weather.
- Should not be used on frozen or melting substrates, or substrates with the risk of frost within 24 hours.

Application

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

For repair usage:

- 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.
- It should be observed whether the material over flows The hole to be drilled must have a diameter 6 mm greater than that of the reinforcement bar.
- All drilled holes must be cleaned using compressed air.

Application tools

- Hand mixer, steel trowel and spatula

Consumption

- Approximately 1,30 - 1,40 kg/m^2 (for 1 mm application thickness)

Points of attention

- No foreign object should ever be added. The mixture should be prepared in accordance with the specified mixing ratio until a homogeneous consistency is achieved.
- The pot life varies depending on the ambient air temperature. Especially in hot conditions, only the amount that can be applied within the working time should be prepared and used.
- The performance may vary depending on the substrate's strength, consistency, and porosity. A trial application is recommended prior to the actual application to verify compatibility and performance.
- During the application of **weber EP Bond** , the working area must be well-ventilated and the relative humidity should not be high.
- Avoid direct exposure to sunlight.
- All tools used should be cleaned with thinner right after the application before drying.

Technical specifications

Product	**weber EP Bond**
Chemical structure	Component A: Epoxy resin Component B: Hardener
Colour	Mixture: Gray
Density	Mixture: 1.33 kg/lt
Chloride	≤ %0.05
Application thickness	2 - 30 mm
Pot-life	120 minutes (20°C)
Full curing	7 days
Reaction to fire	Class D
Service temperature	-15°C ile 90°C
PERFORMANCE	
Compressive strength (TS EN 196)	1 day: > 50 N/mm² 7 day: > 60 N/mm²
Flexural strength (TS EN 196)	1 day: > 23 N/mm² 7 day: > 25 N/mm²
Adherence (TS EN 1542)	7 day: > 2.5 N/mm²

Note: The above values are given for +23°C and 50% relative humidity. Higher temperatures shorten the working time; lower temperatures extend it.

Storage

Packaging	5 kg set Component A: 3.75 kg metal bucket Component B: 1.25 kg metal bucket
Colour	Mixture: Gray
Shelf life	• 1 year from date of manufacture when stored unopened and undamaged, between +10°C and +35°C, in a dry, moisture-free environment. • Storage at high or low temperatures adversely affects the product properties. Do not expose it direct sun light.

Safety precautions

- Use appropriate safety equipment (mask, gloves, glasses, protective clothes).
- Protect your eyes/face.
- Avoid direct contact with eyes and skin.
- In case of contact with eyes, rinse immediately with plenty of clean water and seek medical attention.
- Please read Safety Data Sheet (SDS) for further safety information, waste management and/or product disposal

LEGAL DISCLAIMER

Saint-Gobain Weber Yapı Kimyasalları San. ve Tic. A.Ş. is not responsible for any errors arising from the use of product beyond its intended purpose or not complying the application procedures mentioned above.

Access detailed documentation of the product by scanning QR or tr.weber.

The stated times apply for 20°C substrate and ambient temperature; increase at lower temperatures and decrease at higher temperatures.
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