

weber.tec 793

Two component, solvent free, transparent, epoxy resin

Technical Data Sheet

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■ Description

Two component, solvent free, transparent epoxy resin with perfect adherence on concrete, screed and iron bar with high compressive and flexural strength values.

■ Advantages

- Perfect resistance against water, mineral oils, fuel, many acid and alkalis.
- Perfect adhesion on concrete and steel.
- Resistant against thermal affects and abrasion.

■ Range of application

- Internal and external areas;
 - Anchoring in reinforced concrete structures by mixing quartz sand.
 - As thick coating on dry and slightly moist substrates.
 - For production of epoxy based mortar.
 - For epoxy based industrial flooring.
 - As binder between old concrete and new concrete.
 - As strong adhesive for concrete, stone and wood.
- Sewage system construction;
 - For the protection of sewers and for sealing bell joints of pressure pipe lines.
- Industry;
 - Conservation of sulphur warehouses.
 - Producing screeds resistant to abrasion and shock especially for chemical and material oil industry.
- Concrete roads and airport;
 - For coating concrete surfaces and for adhering new concrete.
 - Repair of edge breaks in expansion joints as epoxy added mortar,
- Bridge construction;
 - Mixed with stone chips or quartz sand, the reaction resin is suitable for structuring and binding concrete slabs and steel plates.

■ Application substrates

- Cement based substrates,
- Old concrete substrates,
- Metal substrates,
- Please consult for all other application substrates.

■ Application properties

- Pot life: average 45 min.
- Number of application layers: 1-2 layers,
- Waiting time between layers: 30 min-10 hours,
- Open to pedestrian traffic: average 24 hours,
- Curing time: 3-4 days.

■ Performance

- Pouring density: Average 1,1 kg/dm³
Dry residue % 100
- Mixture rate: Component A (resin): 10 unit.
Component B (hardener): 3,5 unit.
- Flexural strength: 70 N/mm² (after 4 days),
- Adhesion strength: 7.2 N/mm² (after 4 days),
- Water vapor diffusion resistance: μ H₂O-50.000,
- Heat resistance: (after hardening): +140 °C (dry)
+80 °C (humid).

■ Attention points

- Use gloves and goggles during application and avoid skin and eye contact.

■ Preparation of substrates

- The substrate should be free from dust, dirt, oil, bitumen and weak particles and also should be sound.
- If cracks and cavities on damaged substrates are repaired, cracks and cavities to be repaired should be expanded before the application and cleaned with compressed air.
- The application substrate should have 30 N/m² concrete pressure strength and upper surface of concrete should have 1,5 N/m² adherence strength.
- Substrates, cracks and cavities to be repaired should be primed with **weber.tec 793** without dilution. Next process should start when the material is still sticky.

■ Conditions of application

- The ambient temperature is between +8 °C and +35 °C.

■ Application

- If the whole material would be used, component B hardener at the upper part of the bucket should be poured into the component A (epoxy resin) by making a few holes with a steel sharpener. Two components should be mixed for 2 minutes until the homogenous state is achieved with low-speed mixer. After mixing, the mixture should be mixed for another 1 minute in an empty container for safe a mixture.

Application as coating paint

- The product is applied one or two coat on the tacky primer applied before.
- As the waiting time differs according to the exterior weather conditions, the first layers should be still tacky when the second layer application started. Otherwise, there will be no adherence between layers.
- If time is exceeded, quartz sand to be scattered on the substrate will increase the time for application and adherence.

Application as resin repair mortar

- 1 volume **weber.tec 973** and 4 volumes quartz sand are mixed (or **weber.tec 793 3K's** three component should be mixed) and epoxy resin mortar is achieved and it is applied on adhesive substrate.
- Sizes of quartz sand required to be used based on mortar thickness are as follows.
 - Particle size up to 2 cm depth: 0-4 mm.
 - Particle size above 2 cm depth: 0-8 mm.
- All tools used for application should be cleaned with water before getting dry.

■ Consumption

- As coating paint: 0,2-0,4 kg/dm²
- As bonding coat: average 0,4-0,7 kg/dm².
- As repair mortar: 2 kg/m². (1 mm thickness).

■ **Packaging**

8 kg tins.

■ **Color**

Transparent.

■ **Application tools**

Hand mixer, brush, roller, spatula, trowel.

■ **Shelf life**

24 months as of the production date in dry and moisture-free environment provided that packages will not be opened.

Package should be kept tightly closed when not in use.

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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