

### ■ Description

Double component, solvent-free transparent epoxy resin; perfect adherence on concrete, screed and iron; high compressive, flexural and adherence values.



### ■ Advantages

- Perfect resistance against water, mineral oils, gasoline, many acids and alkali
- Perfect adherence on concrete and steel
- Resistant to thermal effects and abrasion

### ■ Application substrates

Interior and exteriors;

- Cement based substrates,
- Old concrete substrates,
- Metal substrates,

Please consult us for all other application substrates.

### ■ Application areas

#### Interiors and exteriors;

Reinforcement anchoring applications on concrete structures by mixing quartz sand,  
As thick coating on dry and slightly damp substrates,

#### Epoxy based mortar production;

Epoxy based industrial floorings,  
As binder between old and new concrete,  
High-grade adhesive for concrete, stone and wood,

#### Sewage construction;

Protecting piles of sewage channels and leakproof bonding of joints of intersecting pipes,

#### Industrial;

Conservation of sulphur warehouses,  
Producing abrasion and shock resistant screeds especially for chemical and mineral oil industries,

#### Concrete roads and runways;

Coating of concrete substrates, as adherence bridge for new concrete joints,  
Repairing edge breaks of expansion joints using as resin added mortar,

#### Bridge building;

Filling under concrete and steel plates or binding them by mixing with pebble and quartz sand

### ■ Preparation of substrates

- Application substrate should be dry, clean, smooth and free from dirt, dust, oil, bitumen and weak particles which affects adherence.
- If repair will take place on cracks and cavities, these areas should be expanded and cleaned with compressed air before the application.
- Application substrate should have 30 N/mm<sup>2</sup> concrete pressure strength and 1,5 N/mm<sup>2</sup> adherence strength.
- Substrates, cracks and cavities to be repaired should be primed with non-diluted **weber.tec 793** and next application should start while the material is still sticky.
- The material should be prepared in the amount to be used considering the working time and mixing ratio.

### ■ Application conditions

- Ambient temperature between +5°C and +30°C.

### ■ Application

- If all of the material will be used, B component (hardener) on the upper section of the bucket should be poured into the A component on the lower section and these two components are mixed using a low-speed mixer to a homogenous state for 2 minutes. After the mixing process, transfer the mixture to a new container then mix again for 1 minute to be on the safe side.

#### Application as coating paint:

- The material is applied in one or two coats on previously applied primer while the primer is still tacky.
- As the waiting time between coats differs depending on weather conditions, make sure the first coat application is still tacky while making second coat application. Otherwise, there will be no adherence between coats.
- If the waiting time between coats is exceeded, scattered quartz sand on the substrate extends the time and improves adherence.

#### Application as epoxy added repair and filler mortar:

- 1 volume of **weber.tec 793** and 4 volumes of quartz sand (or three components of **weber.tec 793 3K** product) should be mixed to get the epoxy resin mortar then applied while the substrate is still tacky.

Sizes of quartz sand required to be used based on mortar thickness are:

- Particle size up to 2 cm of depth: 0-4 mm
- Particle size above 2 cm of depth: 0-8 mm
- After the application, wash all equipment used before drying with thinner.

#### Application tools

Hand mixer, brush, roller, scraper, trowel

#### Consumption

As coating paint: 0,2-0,4 kg/m<sup>2</sup>

As bonding coat: 0,4-0,7 kg/m<sup>2</sup> (average)

As repair mortar: 2 kg/m<sup>2</sup> (for 1 mm application thickness)

#### Points of attention

- Use gloves and glasses during the application, avoid eye and skin contact.

#### Safety precautions

- Use appropriate safety equipment (mask, gloves, glasses).
- 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.

#### Technical specifications

PRODUCT	weber.tec 793
Product structure	Epoxy
Colour	Transparent
Pouring density	1.1±0.1 g/cm <sup>3</sup>
Mixing ratio	10 : 3.5 - A comp. (resin) : B comp. (hardener)
Dry residue ratio	100%
Pot-life	Approx. 45 minutes
Number of coats applicable	1-2 coats
Time to wait between coats	30 minutes - 10 hours
Time to open pedestrian traffic	Approx. 24 hours
Curing time	3-4 days
PERFORMANCE	
Compressive strength	≥70 N/mm <sup>2</sup>
Bonding strength	≥7.2 N/mm <sup>2</sup>
Water vapour diffusion resistance	μH <sub>2</sub> O 0-50.000
Heat resistance (after hardening)	+140°C (dry) +80°C (humid)

#### Storage

Packaging	1+8 kg metal bucket (double component)
Colour	Transparent
Shelf life	<ul style="list-style-type: none"><li>24 months from date of manufacture when stored unopened and undamaged in a dry, moisture-free environment.</li><li>Packages should be kept tightly closed when not in use.</li></ul>

#### 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.

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

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