

weber EP 800

Epoxy-based, two-component, grout and tile adhesive resistant to chemicals

Technical Data Sheet:
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■ Description

Epoxy-based, two-component, grout and tile adhesive resistant to chemicals.

■ Reference standards

- TS EN 13888 / RG
- TS EN 120004 /RT
- R2T
- G marking
- Public Works Pos No: 10.300.2233
- According to the BS6920 standart,contact with drinking water is approved

■ Advantages

- Superior resistance to chemicals.
- Suitable for potable water contact.
- Water proofing property against leaks.

■ Range of application

- For coating materials such as ceramic, tile, granite ceramic, glass mosaic; **weber EP 800** is applied as grouting between 1-10 mm of thickness; as adhesive on walls and floors; on places where special resistance to acid and alkali is required, and for renewing worn grouts.
- Chemical industry;
- Laboratories, production and storing centers, paper, leather and battery factories, etc.
- Food industry;
Slaughter houses, dairies, restaurants, wine and beer factories, wet-dry fruit processing plants, olive plants, biscuit plants, tomato paste plants.
- Hospitals and clinics;
Operating rooms, kitchens, showers, sanitary areas, etc.
Swimming pools;
- Swimming pools and surrounding areas, sauna and sanitary baths, thermal and salty water hot springs,
- Supermarkets, shopping centers, metros and delicatessens, garages, power rooms, public toilets, water filtration centers, etc.

■ Application substrates

- Interior and exterior, walls and floors:
- Cement based screeds and plasters,
- Metal substrates,
- Tile coverings.
- Please consult us for all other application substrates.

■ Conditions of application

- Ambient temperature is between +10°C and +30 °C.
- It should not be used on substrates which are frozen or melting or have the risk of frost within 24 hours.
- Avoid application under direct sunlight, strong wind or (heated)hot surfaces.

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

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■ Preparation of substrates

- The surface should be dry, smooth and durable.
- Plasters thinner than 3 mm on the substrate should be scraped and cleaned thoroughly.
- Important deformations or holes on the substrate should be repaired with **weberep MA 200** minimum 24 hours before the application of **weber EP 800**, the joint gaps should be dry and clean, they should be free from any kinds of cement residual.
- When performing joint operation with **weber EP 800**, it should be taken into account that the joints are dry and clean, and all kinds of cement and construction materials should be cleaned of their residues.

■ Application

- The whole of two components in the bucket should be mixed well until a homogenous paste is achieved with low-speed mixer preferably.
- If the whole of two components is not consumed completely, the mixing ratio in weight of two components will be 93,3/6,7 (component A/ component B).
- **weber EP 800** should be kept in hot area a day before for slippery and application easiness in applications to be done at temperatures below 15 °C. However, during application **weber EP 800** should be certainly at room temperature.
- **For ceramic adhesion:**
 - The mortar should be applied on the substrate and its thickness should be adjusted with steel notched trowel. Tooth size of trowel should be determined as per the size of tile to be laid and smoothness of application substrate.
 - For good adhesion force should be applied by means of rubber hammer and air should be ejected. Stains of **weber EP 800** on the tiles should be cleaned with mild, damp sponge before drying.
- **For joint grout**
 - **weber EP 800** should be filled in gaps with spatula or joint gun.
 - **weber EP 800** on the coating should be cleaned with mild, damp sponge thoroughly before it cures during the application. It is very hard to clean **weber EP 800** after curing.

■ Application tools

Hand mixer, trowel, rubber hammer, steel notched trowel, joint gun, spatula, sponge trowel

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Consumption

Ceramic size	Ceramic dept	Joint Width		
		3 mm (g/m ²)	6 mm (g/m ²)	10 mm (g/m ²)
10x10 cm	6 mm	675	1350	2250
20x20 cm	8 mm	450	900	1500
33x33 cm	8 mm	275	550	925

Consumption as a ceramic tile	1,5-1,8 kg/m ² (for 1 mm thickness)
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Attention points

- Please consult us for the environments where chemicals are used that are outside the specified chemical resistance table.
- Coatings adhered with **weber EP 800** should be certainly jointed with **weber EP 800**.
- All tools should be cleaned with water before drying after the application.
- Wear gloves, avoid eye and skin contact during the application of **weber EP 800**.

Technical Information

Product	weber EP 800
Product Type	Epoxy
Colour	White and Grey
Packaging	5 kg kraft bucket (two-components).
Application features	
Pot life	Max.120 minutes
As a tile adhesive	
Application thickness	3-5mm (single or double sided)
Setting time	between 12-24 hours
Time of full resistance to chemicals	4 days (at 20 °C), 8 days (at 10 °C).
As grout	
Time required opening floor to traffic	4-8 hours
Joint width	2- 10 mm

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Performance	
As grout	
Abrasion strength	≤250 mm ³
Flexural strength	≥30 N/mm ²
Pressure strength	≥45 N/mm ²
Shrinkage	≤1,5 mm/m
Water absorption (after 240 min.)	≤ 0,1 g
As tile adhesive	
Initial shear adhesion strength	≥2 N/mm ²
Shear adhesion strength after water immersion	≥2 N/mm ²
Open time tensile adhesion strengt(after not less than 20 min)	≥0,5 N/mm ²
Shear adhesion strength after thermal shock	≥2 N/mm ²
Slip	≤0,5 mm
Heat resistance	between -40°C and +100 °C.

These values were obtained as a result of laboratory tests and they are valid for 28 days performance of finished applications. Values may vary due to differences on job-sites.

Storage

Packaging	• 5 kg plastic bucket (two-components).
Shelf life	• 2 year 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. Package should be protected against frost.

Safety Precautions

- Use the appropriate safety equipment (dust mask, gloves).
- Protect your eyes / face.
- Avoid contact with eyes and skin.
- In case of contact with eyes, rinse immediately with plenty of water and consult a specialist.
- Read the Material Safety Data Sheet for more detailed.

Table of resistance to chemicals

Chemical name	Concentration	Resistance
Resistance to acids		
Acetic acid* *	2,5 % 10%	+ (+)
Hydrochloric acid*	37%	(+)
Citric acid* *	10% 40%	+ +
Formic acid* *	2,5 % 10%	(+) (+)
Lactic acid* *	2,5% 10%	+ (+)
Nitric acid*	25% 50%	(+) -
Phosphoric acid*	50% 85%	+ (+)
Sulphuric acid* * *	1,5% 50% 75%	+ + +
Oxalic acid	10 %	+
Anti-rust and anti-lime*		+
Mineral water		+
Vinegar of grape *		+
Vinegar of apple*		+
Coke		+
Beer		+
Resistance to solvents		
Acetone		+
Glycerin		+
Methanol		+
Ethanol		+
Carbon tetrachloride		-
Dichlorethane		-
Trichloroethylene		-
Tetrachloroethylene		(+)
Toluene		-
Formaldehyde		+
Trietanolamine		+

Resistance to alkalis		
Sodium hydroxide (caustic)	50 %	+
Potassium hydroxide	30 %	+
Sodium hypochlorite* (bleach)	5 %	+
Ferro 3 chloride*	20 %	+
Potassium sulphate	10 %	+
Sodium chloride(salty water)	saturated	+
Sugared water	saturated	+
Hydrogen peroxide	1 % 10 %	+
Potassium permanganate*	%5	(+)
Sodyum chlorate	%10	+
Resistance to mineral, animal and vegetable oils		
Boron oil		+
Petrol		+
Fuel		+
Gas oil		+
Peanut oil		+
Tar oil		+
Animal oil		+
Motor oil		+
Olive oil		+
Light fuel		+
Heavy fuel		+
White spirit		+

Legal Warning

Since there are different conditions and requirements that apply in any case, Saint-Gobain Weber Yapı Kimyasalları San. ve Tic. A.Ş. cannot be liable for other than the information provided in this product datasheet.

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