

weber.tec 796

EP coating, very low emission

2-comp. high quality, coloured and AgBB-tested epoxy resin coating

Fields of application

For the coating of concrete floor surfaces or cement screeds, e.g mechanically stressed surfaces in industrial and commercial areas, and also in so-called "recreation rooms".

Allows smooth coatings and non-slip coatings in a thickness of > 1.5 mm-thickness. Depending on thickness, it can be mixed with silica sand.

Also suited for achieving non-skid coatings with broadcasting of silica sand and top sealer (paint) on top.

Furthermore, convenient as thin coating on old epoxy resin coatings.

For use indoors and outdoors.

Description

weber.tec 796 is a 2-component, factory-mixed and pigmented epoxy resin. With official

approval Z- 156.605-818 (Germany).

Main features

- fulfills the AgBB guidelines (Committee for Health-Related Evaluation of Building Products) for sensitive recreation rooms
- multi-use epoxy resin
- self-spreading
- can be mixed with silica sand for layer thickness ≤ 2 mm
- · can be applied as top sealer on blinded coatings
- · also as thin coating on old epoxy resin coatings
- liquid-tight
- 100% solids content (i.e no water and no solvent) as epoxy composition according to the test method of German Association for Construction Chemicals
- decorative smooth or rough(non-slip finish)
- available in a wide colour range
- for use indoors and outdoors



Technical values

Curing time:	approx. 18 hours at +20°C	
Application temperature:	+10°C - +30°C	
Pot life:	approx. 35 minutes, when unfilled; high temperatures shorten and lower temperatures delay the pot life	
Application thickness:	0.5 - 2.0 mm (without silica sand); 2.0 - 4.0 mm (with silica sand)	
Density:	approx. 1.4 kg/dm³	
Consistency:	liquid	
Mixing ratio:	comp. A (resin base) : comp. B (hardener) = 5 kg : 1 kg	
Class of reaction to fire:	Efl (EN13501-1):	
Clean-up:	thinner weber.sys 992 (fresh product); mechanical means (dry product)	

Quality control

weber.tec 796 is subject to a regular quality control by self-monitoring.

General notes

- All characteristics mentioned in this data sheet relating to pot life, delay for pedestrian traffic, consumption and filling ratios with mineral fillers are temperature-dependent and are based on +20°C.
- Higher temperatures shorten, lower temperatures delay the pot life; when the product is mixed with silica sand.
- Relative humidity < 75% during application and up to 24 hours afterwards
- The substrate temperature must be at least 3°C above the prevailing dew point temperature to avoid risk of condensation.
- Comply with the national standards and/or guidelines relating to works with reactive resins on floors; if not issued, and if necessary, request technical advice.
- Minor shade deviations are unavoidable due to different product batches. If a uniform colour appearance is important, work on contiguous sections should be carried out using the same batch number (see label on packaging).
- Epoxy resins are not permanently colour-stable under UV radiation (direct sunlight) and weather influences and they tend to become chalky due to accelerated ageing.



Special notes

- Porous substrates and concretes with air-entraining agents can lead to blisters and channels in the coating.
- When used in thicknesses from 0.5 up to 2.0 mm or as top layer weber.tec tec 796 must be uncut (without silica sand).
- When used in thicknesses from 2.0 up to 4.0 mm mix weber.tec tec 796 with up to 50% filling sand weber.floor 4935 (0.1 0.3 mm).
- The AR wear class stated on the CE label is given for the smooth coating (e.g without silica sand on top).
- As a rule, the pot life of blended epoxy resins is somewhat longer than in the case of unfilled ones.

Substrates

- Concrete, cement screeds, anhydrite screeds, magnesia screeds and old, well-bonding epoxy resin coatings or paints are allowed substrates.
- Other substrates must be examined case-by-case.

Substrate preparation

- Reactive resin coatings require an even, load-bearing and uniformly primed substrate.
- In case of even substrates apply the epoxy resin primer weber.tec 794; in case of recreative rooms use the epoxy resin primer weber.prim 807. First distribute the mixed quantity, using a rubber squeegee and afterwards smooth down uniformly with a shorthair lambskin roller in cross motions. Scatter silica sand over the fresh primer up to saturation. Let dry approx. 18 hours and sweep away unbound sand.
- In case of uneven substrates (with roughness depths) apply a scratch layer consisting of 1 part by weight weber.tec 794 (or weber.prim 807 in case of "recreation rooms") and 0.5 part by weight oven-dried silica sand in the desired grain size. Scatter silica sand over the fresh scratch layer up to saturation. Let dry approx. 18 hours and sweep away unbound sand.
- Grind or sandblast old and well-adhering epoxy coatings or paints until "white break"; if in doubt, carry out a bonding test on a trial area.



Working instructions

Mixing

- weber.tec 796 is supplied in 2 pre-mix twin packagings (component A = resin base and component B = hardener) with the specific mixing ratio for use. Avoid mixing of partial quantities.
- Empty the component A totally into the component B.
- Mix both components with a slow-speed electric drill and the stirrer weber.sys Rührpaddel no. 8 for approx. 2 minutes, at least until a homogeneous mixture of uniform colour is achieved.
- Take care that the product is also thoroughly mixed in the corners and at the bottom of the mixing container.
- We recommend decanting into a clean container and mixing shortly again.

Application as self-spreading coating

- Pour the mixed epoxy resin onto either the cured primer (covered with silica sand) or the cured scratch layer after full curing.
- Distribute the epoxy coating (without silica sand) in the intended layer thickness and always work "wet-on-wet" to avoid breaks.
- For use as unfilled coating apply weber.tec 796 in a thickness of 0.5 -2.0 mm with the flat trowel weber.sys Aufstreichkelle, equipped with the triangular notch blade Zahnleiste no. 1 (2.5 mm). afterwards de-aerate with spike roller weber.sys Stachelroller.
- For use as filled coating apply weber.tec 796 in a thickness of 2.0 4.0 mm with the flat trowel weber.sys Aufstreichkelle, equipped with the triangular notch blade Zahnleiste no. 2 (5.0 mm).
- The use of tools with steel spikes is not recommended.
- After 5 10 minutes de-aerate the surface with the spike roller weber Stachelroller.

Application as blinded coating

- For use as non-skid coating, scatter the unfilled coating with the oven-dried silica sand weber.sys Hartquarzmaterial (0.7 - 1.2 mm) up to saturation, after it has been de-aerated. Alternatively, other materials such as corundum or coloured quartz (average grain size > 0.5 mm) can also be used.
- Sweep away any excess unbonded sand as soon as the scattered surface can be walked on and no footprints are visible.



Application as top sealer (paint)

- Pour unfilled material (without silica sand) onto the blinded coating.
- Apply a thin and uniform coat of weber.tec 796 with a rubber squeegee or similar; afterwards, level out crosswise in right motions with a lint-free roller.

Application on inclined or vertical surfaces

• The thixotropic agent weber.floor 4917 should be added in a ratio of 2% - 8% to the mixture of both components of weber.tec 796 in order to achieve a non-sag consistency.

Aftercare

- Avoid contact of the coating with water within the first 7 days; a premature water load or dew point situation can impair the setting process, with spots and differences of the gloss level as result.
- If a matte and colourless finish is requested, apply the low-emission and matte epoxy resin sealer weber.floor 4774 after a delay of 16 24 hours.
- Proper cleaning and care have a positive effect on the service life of epoxy sealers (paints) and coatings. For full information refer to **Weber** care instructions and request technical advice.
- The application of an additional wear coat on all smooth coatings/sealers (without broadcast of silica sand) with a wax-dispersion based treatment is recommended. Request technical advice.

Practical information

Colours:

standard colours approx. RAL 1001, 1015, 3009, 5014, 6011, 7001, 7015, 7023, 7030, 7032, 7035, 7040; other colours upon request

Tools:

Electric drill + stirrer weber.sys Rührpaddel no. 8, flat trowel weber.sys Aufstreichkelle + triangular notch blade Zahnleiste no. 1 (2.5 mm) or no. 2 (5.0 mm), flat trowel, rubber squeegee, lint-free roller, spike roller weber Stachelroller

Storage:

The product can be stored up to 12 months in its original unopened packaging, if kept dry, protected from moisture and direct sunlight, and at temperatures > $+10^{\circ}$ C. Frost will destroy the product. After thawing it is not allowed to be used.



Consumption / yieldper mm layer thickness:approx. 1.4 kg/m²as unfilled coating:approx. 2.5 - 3.0 kg/m² for a 2-mm
thick layeras filled coating in a ratio of 1 kg of resin and 0.5 kg of
silica sand:approx. 1.7 kg/m² and mm layer
thicknessas top sealer (depending on grain size of silica sand)approx. 0.9 - 1.0 kg/m²
in case of grain size 0.7-1.2 mm

Packagings

Туре	Sales unit	Number / euro-pallet
Metal bucket (kit with comp. A + comp. B)	12 kg	30 buckets

The information in this technical data sheet is based on our current knowledge and experience at the time of printing. However, they do not guarantee in the legal sense.