Technical Data Sheet

weber.prim 807

Reactive resin primer

Epoxy resin primer for use under epoxy resin sealers and coatings

Fields of application

weber.prim 807 is a low-odour and low-viscosity epoxy resin primer for epoxy resin sealers and coatings. The primer penetrates well into the substrate and increases the bonding tensile strength of numerous substrates.
When used under bonded screeds or floor levelling compounds, weber.prim 807 can be considered as a vapour barrier when applied twice.
For achieving epoxy resin screeds in industrial and residential premises thanks to its low emission of volatile substances.
Can be applied on concrete, screeds and renders as well as wooden substrates and chipboards.
For indoors and outdoors.

Description

weber.prim 807 is a 2-component, transparent reactive resin on epoxy resin basis.

Composition

Components based on epoxy resins

Main features

- **EMICODE EC 1**: low emission of volatile substances
- improves adhesion to the substrate
- good penetration into the substrate
- low odour
- resistant to numerous diluted acids and alkalis
- resistant to animal and vegetable oils and fats
- brush- and roller-grade

Technical values

Drying time:	approx. 2 - 4 hours
Curing time:	approx. 24 hours
Application temperature:	+ 10 °C - + 35 °C
Reaction to fire:	class Efl (EN 13501-1)
Pot life:	approx. 30 minutes
Mixing ratio (without silica sand):	comp. A (resin base) : B (hardener) = 73 kg : 27 kg
Mixing ratio (with silica sand) for epoxy resin mortars:	1 part by weight resin : 7 - 12 parts by weight silica sand
Solids content:	100% (total solid: no water and no solvent)
Density:	approx. 1.09 kg/dm³
Viscosity:	approx. 550 mPA s

Quality control

weber.prim 807 is subject to a regular quality control by self-monitoring.

General notes

- All properties are based on a temperature of +23°C without draught and a relative humidity rate of 50%.
- Higher temperatures accelerate, lower temperatures delay the reaction process.
- Protect the freshly applied primer from dirt and moisture.
- If any silica sand is used on top of the primer, remove the excess sand at all costs after curing.
- Clean mixing equipment and tools with the thinner weber.sys 992 each time work is interrupted (fresh product). Hardened material must be removed mechanically.

Special notes

- Reactive resins require a compressive strength of at least 30 N/mm^2 and a surface tensile strength of ≥ 1.5 N/mm^2 in case of concrete substrates.
- The concrete moisture content must be < 5% by weight; the moisture check must be measured with a carbide hygrometer as a rule.
- The substrate temperature must be at least 3°C above the dew point temperature.

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- The resin tends to yellow.
- In case of residual moisture inside the substrate do not allow fresh, not yet cured coatings to be exposed to sunlight, as otherwise bubbles may form due to water vapour pressure.
- We recommend not to use the product in rain or threatening rain and at temperatures below +10°C (air and substrate temperature).
- During the curing reaction under critical conditions (high humidity, low temperatures) whitish haze may occur. However, this does not mean a performance reduction of the product.

Substrate preparation

- The substrate must be sufficiently load-bearing, dust-free, dry, free of oil and grease, dimensionally stable and free of adhesion-impairing substances.
- Remove loose or flaking mortar and paint residues.
- Smooth, sintered, polished, glazed, cement-powdered surfaces shall be mechanically roughened by grinding, sandblasting or shot-blasting.
- Remove bitumen and tar surfaces completely.
- The substrate preparation must be adapted to the specific job site conditions.

Working instructions

Mixing

- weber.prim 807 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 B totally into the component A.
- Mix both components with a slow-speed electric drill and the stirrer weber.sys Rührpaddel no. 2 or no. 8 for approx. 2 minutes, at least until a homogeneous mixture of uniform colour is achieved.
- Care must be taken to ensure 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.
- **Mixing ratio for use as primer or vapour barrier**: mix components A and B as described above in the original ratio.

- **Mixing ratio for use as epoxy resin mortar/screed**: first mix components A and B as described above in the original ratio; afterwards add the mineral fillers (oven-dried silica sand weber.floor 4933 in a ratio of 1 part by weight of weber.prim 807 and 7 - 12 parts by weight of silica sand weber.floor 4933 (max. grain size 3 mm) and mix with a forced-action mixer. A mixture with 7 parts by weight of silica sand is liquid-tight and can be classified SR-C50-F15 according to EN 13813. When mixing the epoxy resin with high quantities of silica sand, a forced-action mixer is compulsory due to the stiffness of the mixed material.

Application as primer

- Apply weber.prim 807 undiluted and uniformly with a paint brush, bricklayer's brush or short-hair lambskin roller; avoid puddle formation.
- In case of large surfaces pour the mixed compounds and distribute in one operation with the rubber squeegee and smooth down uniformly with a shorthair lambskin roller in crosswise directions.
- In case of highly absorbent substrates, a second coat will be required.
- The first coat must still be tacky when applying the second one, for otherwise no adhesion between the coats can be expected. Depending on temperature and air circulation, this time may vary from 2 to 10 hours.
- Depending on substrate, amount applied, temperature and air circulation, respect a waiting time for further operations of 2 - 10 hours. If it is impossible to keep this delay, scatter oven-dried silica sand full-surface over the last fresh coat of weber.prim 807. After curing excess silica sand must be vacuumed prior to any further application.

Application as vapour-barrier

- weber.prim 807 can be used as vapour barrier under bonded screeds or floor levelling compounds.
- Apply a first coat at a rate of 500 - 600 g/m^2. Do not scatter silica sand over the first coat.
- As soon as the first coat can be walked on, apply a second one with 400 - 500 g/m^2 and scatter the silica sand weber.floor 4936 (0.3 - 0.8 mm) uniformly up to saturation at a rate of approx. 3 kg/m².
- Use a rubber squeegee for material spreading and smooth down uniformly with a shorthair lambskin roller in crosswise directions.

Application as epoxy resin mortar/screed

- First apply the resin (uncut – without silica sand) as primer; afterwards apply it as bonding layer with brush or roller on the primed substrate.
- Lay the epoxy mortar in the intended layer thickness with a flat trowel, gauge or levelling boards (aluminium beams).
- Always work "wet-on-wet": priming coat and bonding coat must be tacky before they are covered.
- Compact and smoothen the epoxy mortar, using a smoothing trowel or a power trowel.

Practical information

Colours:
transparent

Tools:
Electric drill + stirrer weber.sys Rührpaddel no. 1 or no. 8, forced-action mixer (for epoxy mortars), paint brush, bricklayer's brush, shorthair lambskin roller, rubber squeegee, flat trowel, gauge or levelling boards (aluminium beams), smoothing trowel, power trowel

Storage:
The product can be stored at least 24 months in its original unopened packaging, if kept frost-free and protected from sunlight.

Consumption

depending on substrate, per operation:	approx. 250 - 500 g/m^2

Packagings

Type	Sales unit	Number / euro-pallet
Metal bucket (kit with comp. A + comp. B)	1 kg	9 buckets / cardboard box
Metal bucket (kit with comp. A + comp. B)	5 kg	45 buckets
Metal bucket (kit with comp. A + comp. B)	9 kg	30 buckets
Metal bucket (kit with comp. A + comp. B)	30 kg	12 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.

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