

## weber.plan 813-10

### Floor levelling compound up to 10 mm

#### Quick-setting and self-levelling underlay for indoor floors for thicknesses 1 - 10 mm (CT-C30- F6)

##### Fields of application

As easy-flowing, quick-setting compound for levelling dimensionally stable substrates, such as cement screeds, calcium sulphate screeds, heated screeds, concrete and old load-bearing ceramic tiles. For use as bonded system in all cases.

Suitable under floorings, such as ceramic tiles and natural stones, parquets, carpets, PVC, vinyl or linoleum. Due to its low-stress hardening and optimum flow properties, the product can be applied in a single operation up to a layer thickness of 10 mm. Its early accessibility enables rapid progress for the following works.

For use indoors.

##### Description

**weber.plan 813-10** is a self-levelling floor underlay.

##### Composition

Special cement, selected aggregates, polymers

##### Main features

- **EMICODE EC 1 PLUS**: very low emission of volatile substances
- **CE marking: CT - C30 - F6 (EN 13813)**
- self-levelling
- pumpable
- crack-free and stress-free during setting
- quickly ready for overlay with floorings
- high self-spreading performance, even in thin layers
- resistant under chair castors (in accordance with EN 12529) when used under floorings
- for use indoors

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## Technical values

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Pot life:	approx. 30 minutes
Maturing time:	approx. 2 minutes
Application temperature:	+5°C - + 25°C
Flexural strength (28 days):	> 6 N/mm <sup>2</sup>
Compressive strength (28 days):	approx. 30 N/mm <sup>2</sup>
Consistency (slump/flow rate):	24 - 26 cm (with flow ring: Ø 68 mm/ height 35 mm)
Open to foot traffic:	approx. 2 - 4 hours
Delay for over-working (with next products):	approx. 2 - 4 hours in case of tiles; longer delays for other floorings
CE marking:	CT - C30 - F6 (EN 13813)
Chromate content:	low content (EC regulation 1907/2006)

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## Quality control

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**weber.plan 813-10** is subject to a regular quality control by self-monitoring.

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## General notes

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- Do not process already stiffened material.
- All characteristics mentioned in this data sheet are based on a temperature of +23°C without draught and a relative humidity rate of 50%.
- Higher temperatures and lower humidity rates accelerate, whilst lower temperatures and higher humidity rates delay the setting process.
- All walls and upstands (pillars, columns etc.) within the floor should be separated from the floor construction with a foam strip in order to stop stretching and ingress of the compound into the connection joints; it must reach downwards from the substrate up to the upper edge of the final floor covering.
- Do not apply on warm/heated surfaces.

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## Special notes

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- **Limits of use:** do not use **weber.plan 813-10** on electric heating systems, thin-layer warm water heating systems, wooden substrates (timber planks, OSB boards, chipboards) and mastics asphalt.
- Do not leave **weber.plan 813-10** without any covering.
- Take over the existing joints in the substrate.
- In case of application in wet-duty rooms special measures for waterproofing should be taken by applying bonded waterproofing layers, such as **weber.tec 822** (liquid waterproofing foil), **weber.tec Superflex D 2** (2-comp. reactive waterproofing slurry) or **weber.xerm 844** (2-comp. waterproofing, tile adhesive and de-coupling system).
- Observe the **application tip** "Application chart of **weber.plan 813**" for full information about specific primer and leveling thickness in accordance with each substrate.

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## Substrate preparation

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- The substrate must be sufficiently solid, load-bearing, clean, dry, dimensionally stable, and free of all adhesion-impairing particles and substances.
- Concrete substrates must be free of cement laitance.
- Completely remove oil, grease, wax and care product residues.
- Remove chalking paints as well as solid lacquer and dispersion paints mechanically.
- Smooth, mineral substrates: roughen mechanically by means of grinding, sandblasting or shot blasting.
- Bonded calcium sulphate screeds: grind, vacuum off dust and use either the primer for floor levelling compounds **weber.prim 802** diluted with water 1 : 1 or the 1-comp. quick-drying multi-use primer **weber.prim 804**.
- Absorbent cement-based substrates: use the primer **weber.prim 802** diluted with water 1 : 3; on small areas use the primer **weber.prim 801**.
- Non-absorbent, smooth surfaces (e.g. old tile coverings): use the bonding primer **weber.prim 803** or **804**.
- In case of rising damp (e.g. rooms in basements), apply 2 coats of the epoxy resin primer **weber.prim 807** as vapour-barrier directly onto the concrete substrate and scatter the oven-dried silica sand **weber.sys Hartquarzmaterial** (0.7 - 1.2 mm) over the fresh second coat. After curing (approx. 24 hours) vacuum off any loose sand.
- Level out unevennesses (depressions or holes) over 10 mm with **weber.plan 813-10** blended with 50% by weight of sand (0 - 2 mm).
- The substrate preparation must be adapted to the specific job site conditions.

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## Working instructions

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### Mixing

- **Mechanical application:** use a mixing pump approved by **Weber** (for ex. m-tec Duomix 2000).
- The pump and delivery hoses should be emptied if idle for over 20 minutes.
- A steady consistency is a pre-requisite for the final properties of the levelling mortar. Monitor the consistency regularly via slump test. Take mixed material in the 1.3 liter flow tin, pour it into the flow ring and measure the slump (240 -260 mm) on the flow table. The mortar must not show any bleeding.
- Before pouring the hoses should be pre-lubricated with a slurry of **weber.plan 813-10** or cement and water prior to the pumping of the first mixture. Afterwards this mix is disposed of in a container as waste. Do not use it for the levelling mortar.
- **Manual application:** pour clean water in a suitable mixing vessel and add the powder. Mix the bag content (25 kg) with approx. 6.2 liters of water, using an electric drill and an appropriate stirrer (for ex. **weber.sys Rührpaddel** no. 8) for at least 3 minutes, until an easy-flowing and lump-free mortar is obtained. After a maturing time of 2 minutes, stir again briefly at slow speed.

### Application

- When **weber.plan 813-10** is pumped, limited working sections with a maximal width must be determined, in order to ensure the full workability of the product (mixing, levelling and smoothing) within its pot life.
- If the specified width is exceeded, use the self-bonding foam strip **weber.sys Absperroleiste/weber.floor 4965** in order to form bays and stop ends.
- Pumping is carried out in working sections so that a new section is pumped as quickly as possible and to maintain a wet edge.
- Pour out the mixed material, starting at the lowest point of the substrate and spread, distribute to the required layer thickness with the notched blade scraper **weber ABS Schwedenraker** in 30 cm width (for angles and small surfaces) and in 60 cm width (for larger surfaces) which will assist the self-levelling process, or with the flat rake **weber Großflächenraker** (without notched blade) for smoothing works at a shallow angle.
- The product is self-spreading and levels itself automatically. Thin layers can additionally be vented with a spike roller.
- In case of high flatness demands, we recommend to treat the fresh surfaces with a spike roller as a rule.
- When applying **weber.plan 813-10** on top of itself, use the primer **weber.prim 802** diluted 1 : 3 with water on the hardened surface. After 3 - 4 hours apply the new layer of **weber.plan 813-10**.

- Protect freshly installed surfaces from draughts, and the direct effects of sunlight and heat.
- Do not add any foreign substances during mixing, pumping and application.
- Clean mixing equipment and tools with water (fresh product). Hardened material must be removed mechanically.

## Readiness for covering

- Covering with ceramic tiles and natural stones: after 2 - 4 hours
- Covering with carpets and steam-tight floorings: after 3 days
- Covering with parquet: after 7 days
- For applications with layer thicknesses up to 5 mm, carpets, parquet and steam-tight floorings can be applied already after 24 hours.
- In case of calcium sulphate screeds, the flooring can only be laid, when a residual moisture content of maximum 0.5 CM-% (by weight) is reached (unless otherwise recommended by the manufacturer); the moisture content must be measured with a carbide hygrometer (CM) as a rule.

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## Practical information

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Water demand:

approx. 6.2 liters / 25 kg

Application thickness:

1 mm - 10 mm

Tools:

Mixing and pumping machine m-Tec Duomix 2000, electric drill + stirrer **weber.sys Rührpaddel** no. 8, slump test tools (tin, ring and table), notched blade scraper **weber ABS Schwedenrakerl** in 30 cm width (for angles and small surfaces) and in 60 cm width (for larger surfaces), flat rake **weber Großflächenrakerl** (without notched blade), spike roller

Storage:

The product can be stored at least 6 months (paper bag) or 18 months (plastified bag) in its original unopened packaging, if kept dry and protected from moisture.

# Technical Data Sheet



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## Consumption

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per mm layer thickness: approx. 1.5 kg/m<sup>2</sup>

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## Packagings

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Type	Sales unit	Number / euro-pallet
Plastified bag	25 kg	42 bags
Paper bag	25 kg	42 bags

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*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.*