Technisches Merkblatt

weber.floor 4040

Smoothing mortar

Cement-based levelling mortar for thicknesses 1 - 50 mm, with very quick covering maturity

Fields of application

As multi-use levelling mortar for a wide range of floor substrates via manual or mechanical application. It can be used in a trowel consistency to form slopes, ramps and to fill recesses and in a flow-grade consistency to level small areas. The material is installed manually as bonded system (i.e. with primer) on different substrates and forms a load-bearing substrate for all common floor coverings.
For use indoors and outdoors.

Description

weber.floor 4040 is a factory-mixed, cement-based and polymer-modified levelling underlay for floors.

Main features

- **EMICODE EC 1 PLUS:** very low emission of volatile substances
- CE marking: CT – C30 – F7 (EN 13813)
- non-sag or flow-grade consistency
- resistant under chair castors (in accordance with EN 12529) when used in a layer thickness ≥ 2 mm under flooring materials
- early open to foot traffic
- early ready for overlay with flooring materials
- suitable for heated floor constructions
- high yield

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Technical values

Water demand:	22% - < 28% according to the desired consistency
Compressive strength (28 days):	> 30 N/mm²
Flexural strength (28 days):	> 7 N/mm²
Pot life:	> 15 - < 20 minutes at +20° C and 65% relative humidity rate
Application temperature (air):	≥ +10°C - ≤ +30°C
Application temperature (substrate):	+10°C - +25°C
Reaction to fire:	class A 2 fl s1(EN 13813)
Layer thickness:	1 - 50 mm
Consistency:	non-sag or flow-grade
Open to foot traffic:	≥ 1 - ≤ 3 hours
Open to light load:	approx. 2 hours
Open to full load:	up to 12 hours
CE marking:	CT - C30 - F7 (EN 13813)

Quality control

weber.floor 4040 is subject to a regular quality control by self-monitoring according to EN 13813.

General notes

- Higher temperatures shorten, whilst lower temperatures extend the pot life.
- In case of doubt regarding application, substrate or special structural features, request technical advice.

Special notes

- Limits of use: do not use on mastic asphalt, on timber planks, chipboards and floating constructions (on separating membranes or on insulation boards).
- In case of application outdoors special measures for waterproofing should be taken, e.g. with weber.tec Superflex D 2 or weber.xerm 844 (bonded waterproofing layers).
- The mortar is not self-levelling, even when mixed in flow-grade consistency.
- Do not add any foreign substances during mixing and application.

Substrates

Concrete, cement screeds, calcium sulphate screeds, magnesia screeds, stonewood screeds and ceramic tiles are allowed substrates.

Substrate preparation

- The substrate must be solid, load-bearing, dry, and free of dust and all contaminants.
- Remove all adhesion-impairing compounds e.g. grinding, milling or shot peening.
- Roughen glazed ceramic tiles with fine sand paper.
- The pull-off strength of the substrate must be at least 1.0 N/mm^2.
- Use the specific primer in accordance with the prevailing substrate: either the acrylic primer weber.floor 4716, the dispersion-based bonding promoter weber.floor 4705 mixed with the levelling mortar weber.floor 4045 or the 2-comp. solvent-free epoxy resin primer weber.floor 4710 or 4712 (EC 1); oven-dried silica sand should be scattered on the epoxy primers for purpose of adhesion with subsequent products. Observe the technical data sheets.
- Concrete and bonded cement screeds: use the primer weber.floor 4716 diluted with water in a ratio of 1 : 3. Apply with a soft broom.
- Calcium sulphate screeds: use the primer weber.floor 4716 diluted with water in a ratio of 1 : 1. Apply with a soft broom.
- Magnesia screeds: use the 2-comp. solvent-free epoxy resin primer weber.floor 4710 or 4712 (EC 1). Apply crosswise with a roller and scatter the oven-dried silica sand weber.floor 4936 (0.3 - 0.8 mm), whilst the resin coat is fresh.
- Old ceramic tiles: they must be clean and grinded with rough sandpaper or by mechanical means; either apply the primer weber.floor 4716 diluted with water in a ratio of 1 : 1 (application with soft broom) or a scratch layer of weber.floor 4705 mixed with weber.floor 4045 in a ratio of 1 : 1 (application with flat trowel).
- In case of capillary rising damp or vapor pressure through the substrate, apply 2 coats of epoxy resin as vapour-barrier, e.g. weber.floor 4710 or 4712 (EC 1) directly onto the concrete substrate with scattering of silica sand weber.floor 4936 (0.3 - 0.8 mm) over the fresh second coat.
- The substrate preparation must be adapted to the specific job site conditions.

Working instructions

Mixing

- Manual application: mix with approx. 5.5 - 7.0 liters of water per 25 kg bag according to the requested consistency for 1 - 2 minutes until lump-free, using a slow-speed electric drill and an appropriate stirrer (e.g. weber.sys Rührpaddel no. 3).

Application

- weber.floor 4040 is dedicated to application on small areas.

- Depending on the desired consistency it is poured on horizontal surfaces or trowelled on vertical surfaces.
- Use a flat trowel for levelling and smoothing works.
- Clean mixing equipment and tools with water (fresh product). Hardened material can only be removed mechanically.

Aftercare

- Protect freshly installed surfaces from draughts, and the direct effects of sunlight and heat.
- Ventilation is necessary as soon as the product is open to foot traffic; avoid draughts.
- The job site temperature must be at least +10°C (better +15°C) during and 7 days after application.
- Do not use de-humidifiers during the first 2 days.
- Particularly in the case of thick levelling thicknesses the final floor covering must be laid without delay after maturity for covering; if not possible, protect the material from over-drying.

Readiness for covering

- Moisture-resistant flooring materials at +20 °C and 65 % relative humidity in case of mixing with 5.5 l/bag: at least 2 hours
- Moisture-resistant flooring materials at +20 °C and 65 % relative humidity in case of mixing with 7.0 l/bag: at least 12 hours
- Parquet and laminate at +20 °C and 65 % relative humidity: after 7 days

Practical information

Water demand:
5.5 - 7.0 liters / 25 kg

Tools:
Electric drill + stirrer weber.sys Rührpaddel no. 3, flat trowel

Storage:
The product can be stored at least 12 months in its original unopened packaging, if kept dry and protected from moisture.

Consumption

per mm layer thickness:	approx. 1.6 kg/m²

Packagings

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