

weber.floor 4150

Floor levelling compound

High-flow cement-based underlay mortar for thicknesses 1 - 30 mm

Fields of application

As bonded self-levelling topping screed mortar via manual or mechanical application.

Ideal for levelling works of large surfaces.

It forms a sound, even, smooth and load-bearing substrate for all common floor coverings, whenever a rapid covering is requested.

For use indoors.

Description

weber.floor 4150 is a factory-mixed, cement-based, polymer-modified and high flow levelling underlay for floors.

Main features

- **EMICODE EC 1^{PLUS}**: very low emission of volatile substances
- CE marking: CT – C25 – F5 (EN 13813)
- fits machine application well
- high flow performance
- can be applied in different layer thicknesses
- resistant under chair castors (in accordance with EN 12529), when used in a layer thickness ≥ 1 mm under flooring materials
- suitable for heated floor constructions
- ideal for large surfaces
- particularly economical
- low tensions when hardening
- early ready for overlay with flooring materials
- suitable for shear-resistant parquet bonding, when used in a layer thickness ≥ 2 mm under floor coverings

Technical values

Water demand:	approx. 18% - 20%
Compressive strength (28 days):	> 25 N/mm ²
Flexural strength (28 days):	> 5 N/mm ²
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 13501-1)
Layer thickness:	1 - 30 mm
Consistency (slump/flow rate):	240 - 260 mm (with flow ring: Ø 68 mm/height 35 mm)
Open to foot traffic:	≥ 2 - ≤ 4 hours
Open to light load:	approx. 24 hours
CE marking:	CT - C25 - F5 (EN 13813)

Quality control

weber.floor 4150 is subject to a regular quality control by self-monitoring according to EN 13813.

General notes

- Assess the levelling requirements beforehand.
 - For application on floating constructions and heated screeds, all walls and upstands (pillars, columns etc.) within the floor should be separated with an 8-mm thick insulation foam strip; it must reach downwards from the substrate up to the upper edge of the final floor covering.
 - The final surface must receive a covering, and is not allowed to be left without.
 - If used as heating screed, request information for tailored-made (special) solutions.
 - In case of doubt regarding application, substrate or special structural features, request technical advice.
 - Do not add any foreign substances during mixing and application.
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Special notes

- Limits of use: do not use outdoors, on timber planks, chipboards, floating constructions (on separating membranes or on insulation boards)
 - Manual application is only possible in a layer thickness ≥ 1 mm.
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Substrates

- Concrete, cement screeds, calcium sulphate screeds, magnesia screeds, stonewood screeds (max. levelling thickness: 10 mm), mastic asphalt (max. levelling thickness: 10 mm) and ceramic tiles are allowed substrates.
- Application on floating screeds is also possible.

Substrate preparation

- The substrate must be load-bearing, dry, solid, and free of dust and all adhesion-impairing contaminants.
- 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.
- Unsufficiently or not sanded-off poured asphalt: 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.
- Well sanded-off poured asphalt: use the primer weber.floor 4716 diluted with water in a ratio of 1 : 1. Apply with a soft broom.
- 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 water 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.
- Level out deeper unevennesses (> 10 mm) with e.g. the trowel-grade levelling and patching mortar weber.floor 4045 (1 - 50 mm), using a flat trowel.
- The substrate preparation must be adapted to the specific job site conditions.

Working instructions

Mixing

- Mechanical application: use the mixing and pumping machine m-tec Duomix 2000, which is authorized by Weber.
- For optimal application the whole length of hoses should be at least 40 meters.
- A steady consistency is a pre-requisite for the final properties of the levelling compound. Monitor the consistency regularly via slump test. Take mixed material in the 1.3 liter flow tin, pour it onto the flow ring and measure the slump (240 -260 mm) on the flow table. The mortar must not show any bleeding.
- Manual application: mix with max. 5.0 liters of water per 25 kg bag for 1 - 2 minutes until lump-free, using an electric drill and an appropriate stirrer (e.g. weber.sys Rührpaddel no. 3).
- Excessive water content reduces the mechanical strengths, and increases the risk of cracks and shrinkage.

Application

- When the material is pumped, limited working sections must be determined, in order to ensure the full workability of the product (mixing, levelling and smoothing) within its pot life. Therefore, the width of each working section should not exceed 6 - 8 meters.
- If the specified width is exceeded, use the self-bonding foam strip weber.floor 4965 in order to form bays and stop ends.
- Smooth the fresh mortar without delay either with a notched blade scraper, e.g. weber ABS Schwedenrakel in 30 cm width (for angles and small surfaces) and in 60 cm width (for larger surfaces) or with a flat trowel at a shallow angle.
- 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, and avoid draughts.
- The job site temperature must be at least +10°C (better +15°C), during application and within the first week afterwards.
- Do not use de-humidifiers during the first 2 days.

Readiness for covering

- All common flooring materials (textile, PVC, LVT, vinyl, linoleum, rubber, ceramic tiles, natural stones) can be installed after approx. 24 hours at +20°C and 65 % relative humidity rate.
- The final surface of weber.floor 4150 is ready for covering with all flooring materials when respecting a delay of approx. 1 week per cm thickness at +20°C and 65 % relative humidity rate.
- The maturity for covering is reached for all flooring materials after 24 hours in case of levelling thicknesses up to 3 mm, except for parquet and laminate (after 48 hours).

Practical information

Water demand:

max. 5 liters / 25 kg

Tools:

Mixing and pumping machine m-tec Duomix 2000 or electric drill + stirrer
weber.sys Rührpaddel no. 3, slump test tools (tin, ring and table), notched blade scraper weber ABS Schwedenraket (30 cm width for angles and small surfaces and 60 cm width for larger surfaces), flat trowel

Storage:

The product can be stored at least 6 months in its original unopened packaging, if kept dry and protected from moisture

Consumption

per mm layer thickness: approx. 1.7 kg/m²

Packagings

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

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