

weber.floor 4060

Quick-setting cement screed CT-C40-F7

Quick-setting cement screed for residential, industrial and commercial buildings, with quick covering maturity

Fields of application

As bonded screed, floating (un-bonded) screed on separating membranes or on insulation boards. For new constructions as well as for renovation and refurbishment of existing floors in residential, industrial and commercial constructions, whenever the speed of drying is essential. Also as gradient screed for wet-duty rooms and balconies. For indoors and outdoors.

Description

weber.floor 4060 is a factory-mixed, hydraulically-setting and quick-setting screed mortar.

Main features

- EMICODE EC 1 R^{PLUS}: very low emission of volatile substances
- CE marking: CT – C40 – F7 (EN 13813)
- cement-based
- early ready for overlay with flooring materials
- frost-resistant
- grain size 0 - 4 mm
- non-combustible according to DIN 4102 "Building material class A"

Technical values

Water demand:	> 8% - < 9%
Compressive strength:	> 40 N/mm ²
Flexural strength:	> 7 N/mm ²
Setting time:	> 3 hours
Pot life:	> 30 - < 40 minutes
Application temperature (air):	> +5°C - < +30°C

Application temperature (substrate):	+5°C - +25°C
Fresh mortar density:	approx. 2.2 kg/dm ³
Reaction to fire:	class A 1 fl (EN 13813)
Layer thickness:	30 - 60 mm, depending on system set-up
Consistency:	earth-moist (K 1)
Open to light load:	> 24 hours
Open to full load:	> 3 days
CE marking:	CT - C40 - F7 (EN 13813)

Quality control

weber.floor 4060 is subject to a regular quality control by self-monitoring according to EN 13813.

General notes

- Follow the national guidelines/standards. If not issued or if necessary, refer to the norm DIN 18560 relating to the load-dependent thicknesses of cement screeds.
 - Arrange dummy joints for special structural features and special room geometry, for e.g. wall entry points, doorways and wall recesses.
 - Take over existing movement joints.
 - 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 for underfloor heating constructions; in this case we recommend the quick- setting heating screed weber.floor 4065 (CT - C40 - F6).
- In case of rising damp, take the appropriate waterproofing measures.
- In case of application in wet-duty rooms and on balconies, special measures for waterproofing should be taken, e.g. with weber.tec Superflex D 2 or weber.xerm 844 (waterproofing bonded layers).
- When used on all floating constructions, roll out a separating membrane, for e.g. vapour permissive polyethylene-coated natron kraft paper or PE foil.
- All walls and upstands (pillars, columns etc.) within the floor should be separated with a thick insulation foam strip $\geq 10\text{mm}$; it must reach downwards from the substrate up to the upper edge of the final covering.
- Minimal screed thickness: 30 mm (when used as bonded screed)

- Minimal screed thickness: 40 mm (when used on separating membrane)
- Minimal screed thickness: 45 mm (when used on insulation boards)
- Maximal screed thickness: in all cases 60 mm
- The minimal and maximal screed thickness depends on the system set-up for the screed installation (bonded system, floating system on separating membrane or on insulation boards), the thickness of insulation as well as the specific use and weight loads of the floor (residential, commercial, public constructions etc.). Always comply with the national guidelines; if not issued or if necessary, refer to the standards EN 13813 or DIN 18560. Request technical advice for full information.

Substrates

- Concrete (when used as bonded screed) and floating constructions (on separating membranes or on insulation boards) are allowed substrates.

Substrate preparation

- When used as bonded screed, the substrate must be sufficiently load-bearing, clean, frost-free, dimensionally stable and free of all adhesion-impairing substances.
- When used as bonded screed, properly prepare the load-bearing concrete surface, pre-wet intensively and apply a bonding layer consisting of cement and acrylic primer weber.floor 4716 diluted with water in a ratio of 10 : 1 by weight. Add water until a consistency with a good workability is achieved, and apply with a stiff broom.
- When used as floating screed on separating membrane or on insulation boards, the load-bearing substrate must be clean and comply with the national rules/standards; if not issued or if necessary, refer to the norms DIN 18560 (load-dependent thicknesses of cement screeds) and DIN 18202 (flatness tolerances).
- Level out larger unevennesses and height differences due to pipes laid on the floor beforehand with a cement-based lightweight levelling compound, for e.g. weber.floor 4515 (1 - 30 cm) or weber.floor 4520 (3 - 25 cm).
- The substrate preparation must be adapted to the specific job site conditions.

Working instructions

Mixing

- Mixing of small quantities: mix with approx. 2.2 liters of water per 25 kg bag for 1 - 2 minutes until lump-free, using an electric drill and an appropriate double helix agitator.
- Mixing in case of very large surfaces: use all conventional screed mixers, e.g. Mixokret, Estrich-Boy.

- Mixing in case of medium-size surfaces: use mixing drums, forced-action mixers or the m-tec D20 mixer.

Application

- Adjust the intended screed thickness by using levelling strips/screed gauges and by creating a meter crack.
- Mixing, spreading of mix in the required thickness, levelling, compacting and smoothing works (section by section) must be carried out in rapid sequence.
- When used as bonded screed, the mortar is installed "wet-in-wet" onto the fresh bonding layer.
- Higher temperatures shorten, whilst lower temperatures extend the pot life.
- 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 strong sunlight and heat.
- Uneven setting and drying lead to cracks in case of use as bonded screed; in case of use on separating membrane or on insulation boards, they lead to disintegration of the screed.
- Quick-setting screeds must be covered after reaching their balance moisture content in order to avoid over-drying.
- If a floor covering cannot be laid within 3 days or if a vapour-permeable flooring material is planned (e.g. any weber.floor smoothing mortar), protect weber.floor 4060 against further over-drying by applying one coat of the epoxy resin weber.floor 4710 or 4712 (EC 1) up to saturation, in order to avoid shrinkage and cracks.
- The epoxy resin can be applied is after 36 - 48 hours when weber.floor 4060 has reached a residual moisture content of 5 CM-% (by weight).

Readiness for covering

- The final surface of weber.floor 4060 is ready for covering with vapour-tight flooring materials, when it has reached a residual moisture content of < 4 CM-% (by weight)
 - usually after 24 hours -.
- Immediately before laying the flooring material, the residual moisture check must be carried out with a CM device (carbide hygrometer) as a rule.

Practical information

Water demand:

approx. 2.2 liters / 25 kg

Tools:

All conventional screed mixers (Mixokret, Estrich-Boy), mixing drums, forced-action mixers, m-tec D20, electric drill + double helix agitator, screed gauges, power trowel, wooden float, stiff broom (bonding layer)

Storage:

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

Consumption

per cm layer thickness: approx. 19.0 kg/m²

Packagings

Type	Sales unit	Number / euro-pallet
Paper 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.