Technisches Merkblatt

weber.floor 4341

Cement flow screed CT-C20-F5

Cement-based and fiber-reinforced flow screed in residential and commercial constructions

Fields of application

As bonded screed, floating (unbonded) screed on separating membranes or on insulation boards, as heated screed or non-heated screed in residential and commercial constructions. weber.floor 4341 is purely cement-based and hence convenient for permanently damp floors, e.g. in commercial laundry rooms, private house garages etc.
For use indoors.

Description

weber.floor 4341 is a factory-mixed, cement-based screed mortar.

Main features

- CE marking: CT − C20 − F5 (EN 13813)
- fiber-reinforced
- grain size 0 - 4 mm
- normal drying
- allows large-size working sections
- provides flat surfaces
- open to foot traffic after approx. 24 hours
- suitable for heating floor constructions

Technical values

Water demand:	approx. 13% - 13.5%
Compressive strength (28 days):	> 20 N/mm²
Flexural strength (28 days):	> 5 N/mm²
Setting time:	> 24 hours

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Pot life:	> 30 - < 35 minutes
Application temperature (air):	> +5°C - < +30°C
Application temperature (substrate):	+5°C - +25°C
Fresh mortar density:	approx. 2.2 kg/dm³
Reaction to fire:	class A 1fl (EN 13813)
Layer thickness:	30 - 80 mm, depending on system design
Consistency (slump):	35 - 40 cm (with 1.3-liter flow tin)
Open to full load:	> 28 days
CE marking:	CT - C20 - F5 (EN 13813)

Quality control

weber.floor 4341 is subject to a regular quality control by self-monitoring according to EN 13813.

General notes

- Seamless surfaces of up to 100 m² can be installed with a maximum side length of 10 meters and a ratio between length and width of 2 : 1.
- Cut dummy joints after 48 hours.
- Grinding works can be carried out at the earliest after 14 days and if possible, shortly prior to laying of floor coverings.
- In case of doubt regarding application, substrate or special structural features, request technical advice.
- Do not add any foreign substances during mixing and application.

Special notes

- Limits of use: do not use outdoors.
- In case of rising damp take the necessary waterproofing measures.
- In case of heated floors the pre-heating process (heating up and down) can begin only after 21 days following the application at the earliest.
- Maximal flow temperature: +50°C
- Unfavourable job site conditions, like low temperatures, high humidity rates, too high water/cement ratio, thick layers etc. will delay the drying process.
- 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, except 80 mm on insulation boards

Substrates

Concrete (when used as bonded screed), floating constructions (on separating membranes or on insulation boards), heated screeds, hollow spaces / raised floors) are allowed substrates.

Substrate preparation

- When used as bonded system, the substrate must be sufficiently load-bearing, clean, frost-free, dimensionally stable and free of all adhesion-impairing substances.
- Pre-wet the concrete surface intensively; avoid puddle formation and allow to dry until it is dull-moist.
- Apply a bonding layer consisting of weber.floor 4345 mixed with water on the dull-moist substrate, using a stiff broom.
- Always apply the screed mortar "wet-in-wet" on the fresh bonding layer.
- The substrate preparation must be adapted to the specific job site conditions.

Working instructions

Mixing

- Mechanical application: the material can be used with all common render machines and mixing machines, in particular m-tec Duomix 2000, whenever they are convenient for screed works.
- A static mixer at the end of the hose is absolutely necessary.
- Hose diameter > 35 mm; optimum: 40 mm.
- A steady consistency is a pre-requisite for the final properties of the screed mortar. The flow rate of approx. 35 - 40 cm can be adjusted with the 1.3 Liter flow tin. The mortar must not show any bleeding.
- Excessive water content reduces the mechanical strengths, and increases the risk of cracks and shrinkage.
- Higher temperatures shorten, whilst lower temperatures extend the pot life.

Application

- Adjust the intended screed thickness by using levelling beams (screed gauges) and by creating a meter crack.
- Before pouring the hoses should be pre-lubricated with a slurry of anhydrite binder 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 screed mortar.

- The material is pumped onto the fresh bonding layer and evenly distributed by swinging the casting hose back and forth in order to obtain a homogenous layer.
- Once the right height is reached, the cast surface is immediately beaten through, using the wobbling bar weber Schwabbelstange; first lengthwise and strongly, then crosswise and somewhat more easily. Such wavelike movements bring a good levelling and aerating effect.
- Clean mixing equipment and tools with water (fresh product). Hardened material can only be removed mechanically.

Aftercare

- Keep windows and doors closed during and 3 days after application.
- Avoid draughts and strong sunlight, e.g. in winter gardens, showrooms.
- Do not use forced drying (de-humidifiers).

Readiness for covering

- The final surface of weber.floor 4341 is ready for all flooring materials (textile, PVC, LVT, vinyl, linoleum, rubber, ceramic tiles, natural stones etc.), when a residual moisture content < 3 CM-% (by weight) is reached.
- In case of use as heated floors carry out a function heating with all pre-heating and cooling measures, in accordance with the weber.floor 4341 heating record. The begin of the pre-heating process occurs at the earliest after 21 days following the application. For full information request technical advice.
- Only after the end of this process always check the maturity by measuring the residual moisture content.
- For measurement of residual moisture content use a CM device (carbide hygrometer) as a rule.

Practical information

Water demand:

approx. 5.2 - 5.4 liters / 40 kg

Tools:

Mixing and pumping machine m-tec Duomix 2000 with flow screed equipment, levelling beams (screed gauges), 1.3 liter tin for slump test, wobbling bar weber Schwabbelstange

Storage:

The product can be stored at least 9 months, if kept cool and dry on pallets or wooden shelves.

Consumption

per cm layer thickness:	approx. 19.0 kg/m²

Packagings

Type	Sales unit	Number / euro-pallet
Paper bag	40 kg	30 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.

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