



The Chemical Company
Pourable flooring mortar

Floorfast 20 Rapid

For fully vitrified and ceramic tiles on concrete floors and screeds

Floorfast 20 Rapid audited in accordance with DIN EN 12004 complies with the Euro Norm C2F

FIELDS OF APPLICATION

- For indoor and outdoor use.
- For floors.
- Void-free laying of ceramic tiles, large format fully vitrified tiles, Cotto and sufficiently thick, non-translucent natural stones, particularly in case of slabs with back patterns.
- In residential areas, on underfloor heating systems, heated screeds, balconies and terraces, in halls, rooms and on hallways of industrial buildings, markets, institutional, service and administration buildings.
- Especially suitable for levelling uneven substrates from 4 to 20 mm prior to laying tiles and for time-limited works.
- Ideal For fast track work.
- Can be used with underfloor heating systems.

FEATURES AND BENEFITS

- Eliminates back-buttering, saves time since there is no need to backbutter the tiles.
- Pourable bedding mortar, easy to spread with a large notched trowel.
- Deformable, compensates changes in temperature and tensions in the substrate.
- Resistant to water and frost, to be used for indoor and outdoor floor areas.
- Efficient working for the professional, levelling of substrates and laying of tiles with back patterns in mortar bed thicknesses from 4 to 15 mm.
- Rapid curing can be walked on and grouted after approx. 3 hours, accepts full load after approx. 1 day.
- Also suitable for adjustment of slopes in bonded screeds, e.g. on balconies, terraces, in wet rooms, etc.

TECHNICAL DATA

Material

Material basis	Cement mortar mixture with additives. Does not contain asbestos or other mineral fibres. No injurious silica dust during the application.
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Components	1 part
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Identification according to - Regulation for Hazardous Goods /Road - Regulation for Hazardous Material <i>For further information refer to paragraph Safety.</i>	non hazardous irritating, contains cement
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Shelf life	approx. 12 months
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Storage	cool and dry
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Packaging	20 kg PE lined paper bag
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Application

Consumption - installation of ceramic and natural stone tiles thickness - substrate levelling	approx. 1.7 kg powder/m ² per mm adhesive bed thickness approx. 1.7 kg powder/m ² per mm layer thickness
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Yield adhesive bed thickness - 4 mm - 7 mm - 10 mm	20 kg bag is sufficient for approx. 2.9 m ² 1.7 m ² 1.2 m ²
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Apparent density of fresh mortar	approx. 2 kg/ltr
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Thickness of adhesive bed	4 to 20 mm
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Open time*	approx. 20 minutes
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Slake time	approx. 3 minutes
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Working time*	approx. 50 minutes
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Working temperature	+5°C to +25°C (substrate temperature)
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Mixing ratio	20 kg powder : 3.4 ltr to 3.6 ltr water 1 kg powder : 170 to 180 ml water
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Curing times* - can be walked on after - can be grouted after - fully load-bearing after	approx. 3 hours approx. 3 hours approx 24 hours
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Mixing ratio 1 kg powder : 170 to 180 ml water	20 kg powder : 3.4 ltr to 3.6 ltr water
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* At +23°C and 50 % relative humidity. Higher temperatures reduce and lower temperatures increase these times.

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SUBSTRATE PREPARATION

Minimum age of substrate:

- Novoment screed
- 24 hours
- cement screed
- 28 days
- concrete
- 28 days.

The substrate must be dry, load-bearing and free from dust and oil. Very absorbent cementitious substrates should be primed with Primer G, diluted 1:1 with water. Ground anhydrite and/or gypsum based floated screeds as well as mastic asphalt screeds indoors are to be primed with undiluted Primer G. Allow primer to dry. Cementitious screeds must not have a residual moisture content of more than 4%, anhydrite screeds not more than 0.5%.

APPLICATION

1. Place gauging water (see Technical Data/Application) in a clean mixing container. Add Floorfast 20 Rapid and mix with a suitable stirrer or mixer

GROUTING

Product	joint width
Groutfast Grey	3 -10 mm
Groutfast White	1 -3 mm
Wall & Floor Grout	2 -18 mm

Camel Beige, Bahama Beige, cement Grey No 31, Sandstone, Anthracite, Grey No 21 and Jasmine.

■ PCI-Aquafug	Joint width	1 -8 mm
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■ Fast Track Grey Grout	joint width	3 - 20 mm
Colour No 22 Sandgrey		

■ PCI-Durafug NT No 31		3 - 20 mm
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■ PCI Epoxy Grout Dark Grey		3- 15mm
■ PCI Epoxy Grout Light Grey		3 - 15 mm
■ PCI Epoxy Grout Black		3 - 15 mm
■ PCI Epoxy Grout White		3 - 15 mm

2. mounted on a drilling machine until a plastic, pourable and lump-free mortar is achieved.
3. Remix after a slake time of approx. 3 minutes.

Laying tiles

4. Pour Floorfast 20 Rapid on to the substrate, a section at a time. Apply a thin bond coat. Comb setting bed onto the fresh bond coat with a medium bed trowel, pourable bed notched trowel or other suitable notched trowel which guarantees void-free tiling. Spread only as much mortar as can be covered with tiles within the open time. Check by touching mortar bed with your finger tip.
5. Place tiles into position by slightly pushing motion to ensure complete bedding.

Levelling uneven substrates

6. To level very uneven floors, a preliminary layer with Floorfast 20 Rapid up to a max. 15mm can be applied. This preliminary course is ready for tiling after 3 hours.



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Elastic Joints

- The corresponding standards BS5385 parts 1 to 5 are valid for the arrangement of joints.

PLEASE NOTE

- Floorfast 20 should not be used at substrate temperatures below +5°C and above +25°C or under extremely hot or windy conditions.
- Absorbent substrates reduce the open time (Recommendation: priming with Primer G, diluted 1 : 1 with water).
- If Floorfast 20 Rapid is used to produce a slope or to level uneven substrates the fresh mortar should be covered to be protected against too rapid drying out.
- In case of installation of ceramic tiles on hydraulically curing substrates which have not yet reached the required minimum age and/or the required residual moisture, please contact the PCI Technical Advisory Service for advice on the PCI green screed method.
- Fully vitrified tiles on walls are to be laid with Tilefast 6 Flex or Tilefast 6-Rapidflex.
- Floorfast mortar which has already begun to set must never be diluted with water or mixed with dry powder.
- Floorfast 20 is to be applied within approx. 50 minutes (at +23°C) after mixing.
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- Expansion joints, corner joints (floor/wall) and connection joints (fixtures/tiles, wood/tiles) are to be sealed with the elastic sealant PCI-Silcoferm S.
- Avoid free bed can only be achieved the thickness is greater than 6mm.. The required mixing ratio has to be adhered to. The size of the notched trowel is dependent on the tile format and the irregularities of the substrate (trial laying).
- Clean tools and mixing vessels with water immediately after use; once the product has cured it can only be removed by mechanical means.
- Shelf life: approx. 12 months if stored in a dry and cool location.

SAFETY

Floorfast Rapid contains cement. Contact with moisture or gauging water sets off an alkaline reaction which may cause skin irritations and/or caustic burns to mucous membranes (e.g. eyes). Risk of severe eye damages, therefore avoid contact with eyes and prolonged skin contact. In case of eye contact, thoroughly rinse with plenty of water and consult a doctor. Remove contaminated, wet clothing immediately. In case of skin contact immediately wash with plenty of soap and water. Wear appropriate protective gloves. Keep out of children's reach.

For further information refer to the PCI Material, Safety Data Sheet.

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