



The Chemical Company

Pourable floor adhesive

PCI Floorfast 20 Rapid

For fully vitrified and ceramic tiles on concrete floors and screeds

PCI Floorfast 20 Rapid audited in accordance with 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, terracotta 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 back butter 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 20 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 - 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
Yield adhesive bed thickness	20 kg bag is sufficient for approx.
- 4 mm	2.9 m ²
- 7 mm	1.7 m ²
- 10 mm	1.2 m ²

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	approx. 3 hours
- can be grouted after	approx. 3 hours
- fully load-bearing after	approx 24 hours

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.

SUBSTRATE PREPARATION

Minimum age of substrate:

- PCI 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 PCI 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 PCI 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 PCI Floorfast 20 Rapid and mix with a suitable stirrer or mixer

GROUTING

Product	joint width
PCI Groutfast Grey	3 - 10 mm
PCI Groutfast White	1 - 3 mm
PCI Wall & Floor Grout	2 - 18 mm
Camel Beige, Bahama Beige, Cement Grey No 31, Sandstone, Anthracite, Chocolate Brown, Grey No 21 and Jasmine.	

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

■ PCI-Durafug NT	joint width 3 - 20 mm
Colour: No 31	

■ 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 PCI 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 PCI Floorfast 20 Rapid up to a max. 15mm can be applied. This preliminary course is ready for tiling after 3 hours.

Elastic Joints

- The corresponding standards BS5385 parts 1 to 5 are valid for the arrangement of joints.
- Expansion joints, corner joints (floor/wall) and connection joints (fixtures/tiles, wood/tiles) are to be sealed with the elastic sealant PCI Silcoferm S.

PLEASE NOTE

- PCI 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 PCI Primer G, diluted 1 : 1 with water).
- If PCI 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 PCI Tilefast 6 Flex or PCI Tilefast 6 Rapidflex.
- PCI Floorfast mortar which has already begun to set must never be diluted with water or mixed with dry powder.
- PCI Floorfast 20 is to be applied within approx. 50 minutes (at +23°C) after mixing.

- 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

PCI Floorfast 20 Rapid contains cement. Irritating to skin. Contact with moisture sets off an alkaline reaction which may cause skin irritation and/or caustic burns to mucous membranes (e.g. eyes). Risk of serious damage to eyes. Avoid contact with skin and eyes. Wear suitable protective gloves and eye/face protection. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, take off immediately all contaminated clothing and wash immediately with plenty of water and soap. Keep out of the reach of children. If swallowed seek medical advice and show container or label. Low in chromates.

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



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Für Bau-Profis