



The Chemical Company

Special tile adhesive

# PCI Tilefast 6 Rapidflex

For balconies, terraces, under-floor and under-tile heating systems

- **PCI Tilefast 6 Rapidflex** audited in accordance with DIN EN 12004 complies with the Euro Norm C2FT

## Uses

- For indoor and outdoor use.
- For walls and floors.
- For laying ceramic tiles and slabs, porcelain mosaics, brick tiles, clinker bricks and fully vitrified tiles.
- On cement screeds, ground anhydrite and/or gypsum based floated screeds, precast concrete elements, aerated concrete, heated screeds, plaster boards, gypsum fibre boards, dry screeds, mastic asphalt (only indoors), insulation boards, plaster slabs, plaster and on existing wall and floor tiles. Over-boarded wooden floors.
- PCI Lastogum X (moisture resistance class I + II as well as the official test certificate "A19", PCI Seccoral 2k (moisture class I - III as well as the official test certificate "A1, A2, B")
- PCI Tilefast 6 Rapidflex is especially suitable for fast track works as well as for the installation of Polysilent PCI Polysilent plus and PCI Pecilastic.

## User Benefits

- **Water-resistant and resistant to temperatures**
- **from -30°C to +80°C**, multi-purpose use indoors and out, on walls and floors.
- **Non sag**, no need for battens and spacers, therefore easy and quick application.
- **Deformable**, compensates changes in temperature and elongations of the substrate.
- **PCI Tilefast 6 Rapidflex is fast curing**, can be exposed to foot traffic and grouted after 3 hours. Especially suitable for time-limited works.

**PCI**<sup>®</sup>  
Für Bau-Profis

TECHNICAL DATA

Material

Material basis Powder mixture with flexibilising polymers. Does not contain any asbestos or other mineral fibres. No injurious silica dust during the application.

Identification according to

- Regulation for Hazardous Goods /Road non hazardous  
 - Regulation for Hazardous Material irritant, contains cement

For further information refer to paragraph Safety.

Storage	cool and dry	
Shelf life approx.	6 months	
Packaging	20 kg PE lined paper bag 10 kg PE lined paper bag	
Consumption	approx. 1.2 kg of dry powder/m <sup>2</sup> and mm thickness of adhesive bed	
Yield	20 kg PCI Tilefast 6 Rapidflex is sufficient for approx	5kg PCI Tilefast 6 Rapidflex is sufficient for approx
required notch size:		
4 m	12.0 m <sup>2</sup>	3.0 m <sup>2</sup>
6 mm	9.6 m <sup>2</sup>	2.2 m <sup>2</sup>
8mm	6.4 m <sup>2</sup>	1.6 m <sup>2</sup>
Working temperature	+5 C to +30°C	
Gauging water for		
1 kg powder	approx. 0.24 ltr	
5 kg powder	approx. 1.20 ltr	
20 kg powder	approx. 4.80 ltr	
Slake time	Approx. 3 minutes	
Working time*	Approx. 40 minutes	
Curing times* (on slightly absorbent substrates)		
-can be walked on after	approx. 3 hours	
-can be grouted after	approx. 3 hours	
-fully load-bearing	approx. 1 day	
Temperature resistance	-20°C to +80°C	

\* The reverse profile of the used ceramic and the surface structure of the substrate to be covered are also important factors, besides the tile size, for the consumption of mortar. The indications refer to the installation of slightly profiled non vitrified or vitrified tiles on render or cement screed.

\*\* At +23°C and 50% relative humidity. Higher temperatures reduce and lower temperatures increase these times.

## SUBSTRATE PREPARATION

Minimum age of the substrate:

- PCI Novoment screed 24 hours
- cement screed 28 days
- concrete 6 weeks

The substrate must be solid, clean and load-bearing. Oil stains, bond inhibiting surfaces and other residues must be thoroughly removed. The substrate must be plumb and flush in accordance with BS5385: part 1. Substrate irregularities on walls are to be levelled with the levelling compound PCI Polycrret 5 or with the repair mortar PCI Polycrret 20. Concrete floors can be levelled with the self-smoothing screed leveller PCI Periplan. Prime very absorbent cement based substrates and aerated concrete with PCI Primer G, diluted 1 : 1 with water. Ground anhydrite and/or gypsum based floated screeds as well as gypsum based substrates and mastic asphalt screeds inside of buildings are to be primed with undiluted PCI Primer G, allow the primer to dry. Freshly applied cement screeds must not have a residual moisture content above 4%, anhydrite and/or gypsum based screeds not more than 0,5% (measured with a CM-moisture metre). Ground anhydrite requires two coats of PCI Primer G – first coat at 1: 1 with clean water second coat undiluted.

## ON WOODEN FLOORS

The surface should be prepared to provide a rigid and secure base without deflection and suitable to support the intended weight. Tongue and Groove/Chipboard must be over-boarded with exterior grade plywood which is at least 15mm thick and given time to find equilibrium with its surroundings. Plywood floors must be 18mm thick and all joints must be supported. All must be screwed down every 300mm centers. The reverse face and edges of the boards must be primed with PCI Primer W to prevent the ingress of ambient moisture while the exposed face should be unprimed and clean. Any existing wooden floor may also be over boarded with PCI Pécidur: minimum 10mm thick or PCI Polysilent: 4mm or 7mm thick.

## APPLICATION

- 1 Place gauging water (see table) into a clean mixing vessel. Add the powder and mix the mortar with a suitable stirrer or mixer mounted on an electric drill until a plastic, lump-free consistency is achieved.
- 2 Allow a slake time of approx. 3 minutes for PCI Tilefast 6 Rapidflex, then remix briefly.
- 3 **Laying tiles**  
Apply a thin bond coat to the substrate with the smooth edge of the trowel.
- 4 Comb mortar onto the fresh bond coat with a notched trowel. Apply the adhesive bed in one direction, if possible. Apply only as much mortar as can be covered with tiles during the open time.  
Check the open time by touching the mortar with your finger tip.
- 5 Position and align the tiles by slightly pushing them into the adhesive bed.

## 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.

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■ PCI Aquafug	joint width 1 -8 mm
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■ PCI Fast Track Grey Grout Colour No 22 Sandgrey	3 - 20 mm
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■ PCI Durafug NT No 31	3 - 20 mm
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■ PCI Epoxy Grout	3 - 15 mm
■ PCI Epoxy Grout Dark Grey	3 -15 mm
■ PCI Epoxy Grout Light Grey	3 - 15 mm
■ PCI Epoxy Grout Black	3 - 15 mm
■ PCI Epoxy Grout White	3 - 15 mm

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## ELASTIC JOINTS

- Corner joints (floor/wall, wall/wall, wall/overhead) and connection joints (fixtures/tiles, wood/tiles) must be sealed with the elastic sealants PCI Silcoferm S.

## PLEASE NOTE

- Do not apply at temperatures below +5°C and above +30°C and under extreme hot and windy conditions.
- Mixed PCI Tilefast 6 Rapidflex can be applied for approx. 40 minutes. Higher temperatures reduce, lower temperatures increase these times.
- Substrates made of precast concrete elements and/or in-situ concrete must be at least 3 months old (at +23°C and 50% relative humidity).
- When laying tiles on heated screeds, the regulation BS5385 : part 4 and the Ceramic tiles, natural stones and concrete on heated, cement-based flooring constructions“ has to be followed.
- The instructions of the gypsum manufacturers must be followed in case of gypsum and gypsum based substrates.
- The open time is reduced in case of absorbent substrates

(recommendation: priming with Primer G).

- Never add water or dry powder to stiffened PCI Tilefast 6 Rapidflex.
- When laying fully vitrified tiles on floors outdoors use either PCI Tilefast 6 Flex in the buttering/floating method or the pourable flooring mortar PCI Floorfast 20 or 20 Rapid.
- The amount of gauging water can be reduced to 340 ml/kg when laying tiles with a high weight per unit area on walls. Thereby no spacers are needed, but the open time is reduced.
- The bonding agent PCI Polyhaft is to be applied for the installation on existing ceramics or natural stones outdoors or under exposure to permanent water (e.g. shower facilities or Swimming Pools etc.)
- After laying mosaic tiles it is required to remove the adhesive from the joints down to a uniform depth to ensure proper, stain free grouting afterwards. This also applies to front-sided paper-faced mosaic.
- Tools and ceramics should be washed with water immediately after use; once the product has cured it can only be removed by mechanical means.
- Store in a cool and dry place. Open bags must be closed immediately after use.
- When laying tiles on facades please follow the standard BS5385 part 2.

#### SAFETY

PCI Tilefast 6 Rapidflex contains cement. Contact with moisture or gauging water sets off an alkaline reaction which may cause skin irritation and/or caustic burns to mucous membranes (e.g. eyes). Risk of severe eye injury, therefore avoid contact with eyes and prolonged skin contact. In case of eye contact immediately rinse with plenty of water and consult a doctor. In case of skin contact remove contaminated, soaked clothing immediately and wash with plenty of soap and water. Wear suitable protective gloves. Keep out of reach of children.

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

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In view of widely varying site conditions this data sheet is meant to provide general application guidelines only. Any recommendation or information issued by us constitutes a preliminary and accessory contractual obligation only. Users must satisfy themselves regarding the applicability of the content to their own particular requirements. Please contact our Advisory Service for special requirements. Liability is accepted for incomplete or incorrect particulars in our information material only in the event of intent or gross negligence, without prejudice to claims under product liability laws. All transactions are subject to our Terms of Sale and Supply. Any subsequent publication supersedes this edition. **Edition December 2006.**