



The Chemical Company

Special tile adhesive

Tilefast 6 Flex

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

- **Tilefast 6 Flex** audited in accordance with DIN EN 12004 complies with the Euro Norm C2TE

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.
- For laying ceramic on the alternative waterproofing PCI-Lastogum (moisture resistance class I + II as well as the official test certificate "A19", PCI-Seccoral moisture resistance class I - III as well as the official test certificate "A1, A2, B")

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.

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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 - Regulation for Hazardous Material	non hazardous irritant, contains cement	
For further information refer to paragraph Safety.		
Storage	cool and dry	
Shelf life approx.	12 months	
Packaging	20 kg PE lined paper bag 10 kg PE lined paper bag	
Application Consumption	approx. 1.2 kg of dry powder/m ² and mm thickness of adhesive bed	
Yield	20 kg Tilefast 6 Flex is sufficient for	5kg Tilefast 6 Flex is sufficient for
required notch size:		
4 m	12.0 m ²	3.4m ²
6 mm	9.6 m ²	2.5m ²
8mm	6.4 m ²	1.8m ²
Working temperature	+5 C to +30°C	
Gauging water for 1 kg powder 5 kg powder 20 kg powder	approx. 0.26 ltr approx. 1.3 ltr approx. 5.2 ltr	
Slake time	Approx. 3 minutes	
Working time*	approx. 3 hours	
Curing times* (on slightly absorbent substrates) -can be walked on after -can be grouted after -fully load-bearing	approx. 12 hours approx. 12 hours approx. 3 days	
Temperature resistance	-30°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.



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SUBSTRATE PREPARATION

Minimum age of the substrate:

- 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. Substrate irregularities on walls are to be levelled with the levelling compound Polycrret 5 or with the repair mortar Polycrret 20. Concrete floors can be levelled with the self-smoothing screed leveler Periplan. Prime very absorbent cement based substrates and aerated concrete with 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 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 2 coats of Primer G: 1st coat at 1:1 with clean water 2nd coat undiluted.

APPLICATION

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.

Allow a slake time of approx. 3 minutes for Tilefast 6 Flex, then remix briefly.

Laying tiles

Apply a thin bond coat to the substrate with the smooth edge of the trowel.

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.

Position and align the tiles by slightly pushing them into the adhesive bed.

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

■ Fast Track Grey Grout
Colour joint width 3-20 mm
No 22 Sandgrey

■ PCI-Durafug NT 3-20 mm
No 31

■ 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

ELASTIC JOINTS

■ Corner joints (floor/wall, wall/wall, wall/overhead) and connection joints (fixtures/tiles, wood/tiles) must be sealed with 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 Tilefast 6 Flex can be applied for approx. 3 hours. 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. Ceramic tiles, natural stones and concrete on heated, cement-based flooring constructions have to be followed.

■ The instructions of the gypsum manufacturers must be followed in case of gypsum and gypsum based substrates regarding priming.

■ The open time is reduced on absorbent substrates (recommendation: priming with Primer G).



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- Never add water or dry powder to stiffened Tilefast 6 Flex.
- When laying fully vitrified tiles on floors outdoors use either 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 and swimming pools.)
- After laying mosaic tiles it is required to remove the adhesive from the joints down to a uniform depth to ensure proper, stainfree 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 BS 5385: part 2.

SAFETY

Tilefast 6 Flex 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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