

Polymer modified tile adhesive

PCI FT® Extra

for all ceramic tiles

PCI[®]
Für Bau-Profis



Fields of application

- For indoor and outdoor use.
- For walls and floors.
- For laying non-vitrified tiles, vitrified tiles and fully-vitrified tiles on PCI bonded waterproofing such as PCI Lastogum, PCI Seccoral 1K, PCI Seccoral 2K Rapid, PCI Pecilastic W and PCI Apoflex F/W.
- On cement screeds, rough-ground anhydrite screeds, flowable plaster screeds, render, concrete, heated screeds, mastic asphalt (only indoors), plasterboards, gypsum fibre boards, gypsum planks and plaster.
- For polyurethane foam boards on external basement walls in contact with soil (perimeter insulation) on plaster/render, concrete, brickwork and bonding slurries.
- For mineral fibre boards, e.g. Isover or Rockwool.
- For cut rigid foam boards, e.g. EPS.
- For extruded rigid foam boards, e.g. XPS.
- For adhesive bed thickness from 1 to 5 mm.



Reliable laying of non-vitrified tiles with PCI FT Extra on the waterproofing layer PCI Lastogum.

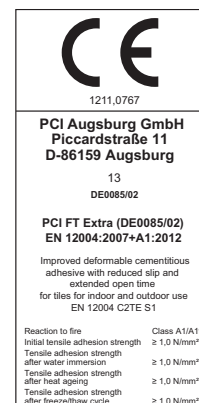
Features and benefits

- High moistening properties, even suitable for fully-vitrified tiles and on low-absorbent substrates (e. g. smooth-cast concrete surfaces).
- Flexible.
- Non-sag properties, no wedging necessary. The bedded tiles immediately bond but can still be adjusted to correct position.
- Good workability, therefore easy to apply.
- Meets
 - the guideline "Flexible mortar" issued by Deutsche Bauchemie e.V.

(German Construction Chemicals Industry),

- the classification C2 TE S1 to DIN EN 12004
- the test principles to issue an official test certificate for bonded waterproofing in combination with PCI bonded waterproofing such as PCI Lastogum, PCI Seccoral 1K, PCI Seccoral 2K Rapid, PCI Pecilastic W or PCI Apoflex F/W.

All test certificates are available under www.pci-augsburg.de.



Technical data

Material

Material base	Dry mortar mix with elastifying polymers. Does not contain asbestos or other mineral fibres. No harmful silica dust during the application.
Storage	store in a dry place, no permanent storage over +30°C
Shelf life	min. 12 months
Packaging size	25 kg PE-lined heavy duty paper bag stock no. 1156/0

Application

Consumption/coverage of PCI FT Extra		
required notch size	consumption/m ²	25 kg of PCI FT Extra cover approx.
6 mm	2.0 kg	12.5 m ²
8 mm	2.5 kg	10 m ²
10 mm	3.0 kg	8.3 m ²
Working temperature	+5°C to +25°C (substrate temperature)	
Amount of gauging water	370 ml per kg of dry mortar (≙ 9,25 l per 25 kg bag)	
Slake time	approx. 3 minutes	
Working time**	approx. 3 hours	
Curing time**		
- walkable after	approx. 12 hours	
- groutable after	approx. 12 hours	
- able to bear weight after	approx. 3 days	
Adhesive bed thickness	1 to 5 mm	
Open time**	approx. 30 minutes	
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 PCI FT Extra. In practice the consumption may therefore deviate from the values given.

**At +23°C and 50% relative humidity. Higher temperatures reduce, lower temperatures increase the times given.

Preparation of substrate

- Minimum age of substrate:
 - PCI Novoment Z1 or PCI Novoment M1 plus screed - 24 hours
 - PCI Novoment Z3 or PCI Novoment M3 plus screed - 3 days
 - cement screed - 28 days
 - concrete - 3 months
- The substrate must be structurally sound, clean and able to bear weight. Thoroughly remove oil stains, residues which could impair adhesion and any contamination. The substrate must be plumb and flush to DIN 18 202. Plaster/render based substrates must be approved for tiling by the manufacturer of plaster/render and must be suitable for the intended use.
- Level substrate irregularities on walls with PCI Nanocret FC concrete filler or PCI Nanocret R2 repair mortar. Level concrete floors with PCI Periplan screed leveller. Prime very absorbent cementitious substrates and aerated concrete with PCI Gisogrund, diluted 1 : 1 with water.
- Mineral substrates can also be primed with PCI Gisogrund Rapid.
- Prime rough-ground anhydrite screeds, flowable plaster screeds, gypsum-based substrates and flowable asphalt screeds in the interior with undiluted PCI Gisogrund. Allow primer to dry. Newly-installed cement screeds must not have a residual moisture content above 4%, anhydrite screeds and flowable plaster screeds not more than 0.5% (measured with CM meter).

Application procedure of PCI FT Extra

Mixing

1 Fill gauging water (see table) in a clean bucket. Add powder and mix until a plastic, lump-free mortar is achieved using a suitable paddle (e.g. from Collomix) attached to a slow-speed drill.

2 Leave PCI FT Extra to stand for approx. 3 minutes, then re-mix briefly.

Tile laying

3 First scrape a thin scratch coat onto the substrate using the straight edge of the steel trowel.

4 Then comb mortar onto the fresh scratch coat using the notched trowel. Comb the mortar bed in one direction if possible. Only apply as much mortar as can be covered with tiles within the open time. Check open time with your fingertip.

5 Place tiles and flagstones in the mortar bed with a twist and slide motion and adjust to correct position.



PCI FT Extra is non sagging, the bedded tiles immediately bond but can still be adjusted to correct position.

Grouting

Cementitious joint grouts/epoxy resin joint grout

	Non-vitrified tiles	Vitrified tiles	Fully-vitrified tiles	Glass tiles/ glass mosaic
PCI Nanofug® from 1 mm	●	●	●	●
PCI Nanofug® Premium 1 to 10 mm	●	●	●	●
PCI Rapidfug® 1 to 10 mm	○	●	●	somewhat coarse for glass tiles ●
PCI Flexfug® 2 to 10 mm	○	●	●	too coarse for glass tiles ○
PCI Durafug® NT 1 to 20 mm	●	●	●	○
PCI Durapox® NT / NT plus 1 to 20 mm (epoxy resin)	●	●	●	●

● to be recommended

● suitable

○ suitable to a limited extent

Grouting

Elastic joints

■ The relevant leaflets issued by Zentralverband des Deutschen Baugewerbes (Central Association of the German Building Trade) apply for the arrangement of joints.

■ Seal movement joints, corner joints (floor/wall) and connection joints (fixtures/tiling, timber/tiling) with the elastic joint sealant PCI Silcofug E or PCI Silcoferm S.



Corner joints, connection joints and movement joints are sealed with an elastic joint sealant.

Please note

- Existing tile coverings indoors must be primed with PCI Gisogrund 303 before laying new ceramic on the old tiles.
- PCI Polyhaft bonding agent must be applied when laying tiles on existing ceramic or natural stone **outdoors or when being exposed to permanent wetness** (e. g. shower facilities etc.).
- A void-free installation is necessary when laying ceramic tiles outdoors (balconies, terraces) as well as for interior floors which are subject to high mechanical use (e. g. industrial floors or sales rooms). For this purpose we recommend to use PCI Nanoflott light and/or PCI Rapidflott (in case of cold weather or time-limited works).
- The open time is reduced for absorbent substrates (recommendation: priming with PCI Gisogrund).
- Pre-fabricated concrete units and/or in-situ concrete must be at least 3 months old (at +23°C and 50% relative humidity).
- Do not use PCI FT Extra to level irregular substrates exceeding 5 mm.
- The standard DIN 18 157-1 applies to the installation and bedding of ceramic in a thin bed.
- Never add water or fresh mortar to reconstitute a mortar mix which has already begun to set.
- Insulation boards and light-weight building boards are generally fixed in the dot and dab method, in doing so minor irregularities in the substrate are compensated.
- Follow the manufacturer's instructions for insulation boards.
- PCI FT Extra is not suitable to fix perimeter insulation on bitumen thick coatings.
- The reverse side of extruded polystyrene foam boards must be roughened with a steel brush to achieve a good bond.
- Heavy, large-format boards must be mechanically fastened when being installed overhead.
- Insulation boards which receive subsequent coatings must be glued over their entire surface and mechanically fixed in addition.
- Suitable tools are available from e. g. Collomix GmbH
Horchstraße 2
85080 Gaimersheim/Germany
www.collomix.de.
- The amount of gauging water can be reduced to 340 ml/kg when fixing tiles and flagstones with a high area weight on walls. No wedging of tiles is then required, however the open time is reduced.
- It is necessary to rake joints clean to a uniform depth, also in case of front-sided paper-faced mosaic, to ensure proper, stainless grouting of mosaic coverings at a later date.
- Clean tools with water immediately after use, when the product has cured it can only be removed by mechanical scraping.
- Storage: min. 12 months; store in a dry place, no permanent storage over +30°C.

Declaration of Performance

The Declaration of Performance can be downloaded on the Internet under www.pci-augsburg.eu/produkte/leistungserklaerung.

Information on the safe use

PCI FT Extra contains cement:

Causes serious eye damage. Causes skin irritation. May cause respiratory irritation.

Keep out of reach of children. Wear protective gloves (e.g. cotton gloves soaked in nitrile) and eye/face protection. Avoid breathing dust. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. Get immediate medical advice/attention. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF ON SKIN: Wash with plenty of soap and water and put skin cream on (pH value approx. 5.5). IF SKIN IRRITATION OCCURS: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

The product is non-flammable. No special fire precautions are therefore required.

Giscode: ZP 1

For further information: see PCI Material Safety Data Sheet.



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zertifiziertes Qualitäts-
managementsystem

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German edition October 2015; the latest edition is always available on the Internet under www.pci-augsburg.de