

Levelling compound

# PCI Periplan® Extra

for critical substrates under top coverings

# PCI®

Für Bau-Profis



## Fields of application

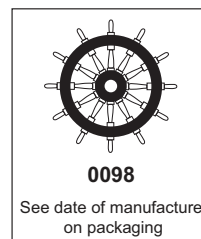
- For indoor use.
- For producing smooth and level surfaces.
- For levelling
  - wooden floors,
  - OSB boards,
  - particle boards,
  - mineral substrates,
  - non absorbent substrates,
  - mastic asphalt.
- Prior to laying
  - ceramic tiles and natural stones,
  - textile and elastic floorings,
  - parquet flooring or laminate to be glued.
- For layer thickness from 3 to 60 mm.
- Suitable for warm water underfloor heating recommended for a thin-layer bedding.



Fibre-reinforced PCI Periplan Extra is especially suitable to level wooden floors and particle boards when renovating and refurbishing.

## Features and benefits

- Fibre reinforced, helps reduce the formation of cracks on wooden floorings.
- Self levelling, can therefore be applied with little effort.
- Fast curing, walkable after approx. 3 hours (at +23°C and 50% relative humidity).
- Dust reduced, low development of dust when opening the bag, pouring and mixing the product.
- Very low emissions PLUS, GEV-EMICODE EC 1 PLUS R.



<b>CE</b> 0767
<b>PCI Augsburg GmbH</b> Piccardstraße 11 D-86159 Augsburg 13 DE0039/02
<b>PCI Periplan Extra (DE0039/02)</b> EN 13813:2002
Cementitious screed material for use internally in buildings EN 13813 C1-C25-F6
Reaction to fire Release of corrosive substances Compressive strength Flexural strength
A2fl-s1 CT C25 F6



A brand of

**BASF**

We create chemistry

## Technical data

### Material

Material base	special cement with additives + fibres
Components	single component
Consistency	powder
Colour	grey
Shelf life	min. 6 months
Storage	store in a dry place, no permanent storage over +30°C
Packaging size	25 kg PE lined heavy-duty paper bag stock no. 2426/3

### Application

Consumption	approx. 1.6 kg dry mortar per m <sup>2</sup> and mm layer thickness
Layer thickness	
- under textile and elastic floorings	3 to 60 mm
- under rigid floorings such as ceramic tiles and natural stones	3 to 60 mm (for particle boards, OSB boards or wooden floorings 10 to 60 mm)
Working temperature	+5°C to +25°C
Mixing ratio	25 kg PCI Periplan Extra + approx. 5.25 to 5.5 l water for partial quantities: 1 kg PCI Periplan Extra + approx. 210 to 220 ml water
Mixing tools	Collomatic forced action concrete mixer XM2-650
Conveying units	Putzmeister MP25 with in-line mixer, PFT G 4 with Rotomix, Swing L with Multimix, M-Tec Duo mix 2000, Inotec-ino COMB M4G with in-line mixer, Ülzener-S48 with in-line mixer a.o.
Mixing time	at least 3 minutes
Consistency	very fluid
Working time*	approx. 30 minutes
Curing time*	
- walkable after	approx. 3 hours
- can be covered after	
- ceramic tiles, textile coverings	approx. 1 day
- vapour-impermeable coverings	approx. 3 days
- parquet flooring	approx. 7 days at a residual moisture CM = 2%

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

## Preparation of substrate

- The substrate must be clean, dry, structurally sound, able to bear weight and free from residues which could impair adhesion, e.g. wax.
- The moisture level of wooden substrates must not exceed the equilibrium moisture content of 6 to 12 mass percent (depending on type of wood).
- The moisture content of particle boards and/or OSB boards must not exceed 10%. The particle board (V 100 E1) or OSB board must be at least 25 mm thick (for floors) and screwed to the substructure at a distance of max. 40 cm. The edge joint must be at least 8 mm wide. The butt joints of the particle boards must be glued. We recommend to additionally install the armour mat PCI Armiermatte if the boards are less than 25 mm thick and the distance between beams exceeds 40 cm.
- Loose, tongue or creaking boards must be fastened with screws. Solid wooden substrates are to be rough-sanded and thoroughly suction-cleaned. Fill joints, gaps and holes with PCI Adaptol. Prevent connections to the wall by installing the self-adhesive insulation tape PCI Pecitape Silent.
- Extremely contaminated or corroded metal surfaces are to be prepared by sandblasting or grinding and protected with an anti-corrosive if necessary.

## Priming

- Prime with PCI Gisogrund 404. Shake well before use.

Substrate	Concrete / cement screed; low-absorbent	Concrete / cement screed; absorbent to high-absorbent	Anhydrite flowable screed	Mastic asphalt screed****, wooden substrate*****	Ceramic, prepared steel substrates
<b>PCI Gisogrund 404</b>					
**					
Layers	2	2	1	1	1
Dilution	1 : 2	1 : 3	1 : 1	1 : 1	undiluted
Consumption approx. ***	100 - 200 ml/m <sup>2</sup>	100 - 200 ml/m <sup>2</sup>	100 - 200 ml/m <sup>2</sup>	100 - 200 ml/m <sup>2</sup>	100 - 200 ml/m <sup>2</sup>
Waiting time approx. *	6 hours	6 hours	12 hours	12 hours	12 hours

\* At +23°C and 50% relative humidity

\*\* Application instructions: see respective technical data sheet

\*\*\* The consumption of the primer is dependent on the absorbency and structure of the substrate.

\*\*\*\* Mastic asphalt conforming to standard to AS-IC 10 quality.

\*\*\*\*\* Untreated (raw) floorboards require a second layer of primer when the first one is dry. Install PCI Armiermatte GFM armour mat in addition in this case.

## Application procedure of PCI Periplan Extra

**1** Fill cool gauging water in a round (Ø approx. 35 cm) and appropriately high mixing bucket. Add PCI Periplan Extra and mix for at least 3 minutes until free of lumps using a suitable agitator or paddle (e.g. from Collomix) attached to a high-speed electric drill.

**2** Pour PCI Periplan Extra onto the dry, cured primer. Spread mortar to the required layer thickness using a surface scraper or trowel.

**3** Level and de-aerate PCI Periplan Extra during the application using a suitable spiked roller.

**4** Avoid exposure to draught, extreme heat and direct sunlight during the application and curing process - for approx. 12 hours.

**5** Ceramic tiles can be laid on PCI Periplan Extra after approx. 1 day using the following PCI tile adhesives:  
- PCI Flexmörtel, PCI Nanolight, PCI Flexmörtel S1Rapid / S2 Rapid,

PCI Nanoflott light, PCI Rapidflott.  
- For natural stones: PCI Carraflex, PCI Carralight, PCI Carrament and/or PCI Carraflott NT.  
- The suitability of these products should be tested in advance when using other tile adhesives.

**6** PCI Periplan Extra can be covered with carpet after approx. 1 day, with vapour-impermeable coverings after approx. 3 days depending on substrate and ambient conditions.

## Please note

- In case of exposure to moisture and in wet rooms, it is necessary to apply a waterproof coating (e.g. PCI Lastogum) to PCI Periplan Extra before installing top coverings in accordance with the ZDB leaflet "Instructions on the application of waterproofing directly under tiles and flagstones for indoor and outdoor use".
- Suitable for the interior of ships
  - to produce a cement-based floor leveller on metal substrates,
  - to level irregularities and to obtain level surfaces.

Approved as Primary Deck Covering according to MED (Marine Equipment Directive). With US-CG approval.

- Mastic asphalt substrates levelled with PCI Periplan Extra must be produced in accordance with the screed standard AS-IC 10.
- Never add water or wet mortar to reconstitute a PCI Periplan Extra mix which has already begun to set.
- Take appropriate measures, e.g. the self-adhesive insulation tape PCI Pectape Silent, to prevent PCI Periplan Extra from overflowing into perimeter joints.

- **The thicker the layer of the levelling compound the longer the waiting time until the surface can be covered.**
- When using PCI Periplan Extra as a filling and casting compound for warm water underfloor heating systems, the functional heating phase can be started approx. 1 day after filling/casting with PCI Periplan Extra. Keep up the flow temperature of +25°C for 24 hours. The surface must be heated for another 24 hours at the maximum allowable flow temperature. The heating is then switched off. The

## Please note

- floor covering can be installed as soon as the filling compound is cooled down to room temperature after a few hours (e.g. overnight).
- In combination with the armour mats PCI Armiermatte GFM and GFS as an additional reinforcement and increase of the tensile strength, PCI Periplan Extra can also be used as a bonded leveller on mixed substrates, substrates with existing cracks and dummy joints as well as slightly vibrating substrates and/or substrates susceptible to vibrations. It is important in such a case to adhere to the minimum layer thickness of 5 mm (10 mm under ceramic and natural stone tiles).
  - In case of unfinished (raw) wooden floors, lay down the armour mat PCI Armiermatte GFM to the primed substrate loosely and with a minimum overlap of 1 cm. Then apply PCI Periplan Extra.
  - A minimum layer thickness of 10 mm is necessary when laying ceramic tiles and natural stones on wooden substrates.
  - Clean tools, machines and mixing equipment with water immediately after use; when the product has cured it can no longer be removed with water.
  - Suitable tools are available from e.g. Collomix GmbH, Horchstrasse 2, 85080 Gaimersheim/Germany, [www.collomix.de](http://www.collomix.de).
  - Shelf life: min. 6 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](http://www.pci-augsburg.eu/produkte/leistungserklaerung).

## Information on the safe use

PCI Periplan Extra contains cement. Causes serious eye damage. Causes skin irritation. Keep out of reach of children. Wear protective gloves (e.g. cotton gloves soaked in nitrile) and eye/face protection. 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 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.

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 Qualitätsmanagementssystem

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Technical Data Sheet No. 188 (April 2016), Any subsequent publication supersedes this edition. German edition July 2015; the latest edition is always available on the Internet under [www.pci-augsburg.de](http://www.pci-augsburg.de)