

Levelling compound for timber floors

PCI Periplan[®] Extra

under top coverings

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FIELDS OF APPLICATION

- For indoor use.
- To produce smooth and level surfaces.
- To level
 - timber floors,
 - chipboards,
 - mineral substrates,
 - non absorbent substrates,
 - mastic asphalt.
- Prior to the installation of
 - ceramic and natural stone,
 - textile and elastic floorings,
 - parquet or laminate to be bonded.
- For layer thicknesses from 3 to 60 mm.
- Suitable for warm water underfloor heating which is recommended for a thin-layer bedding.



Fibre-reinforced PCI Periplan extra is especially suitable to level timber and chipboard floors in renovation and refurbishment works.

FEATURES AND BENEFITS

- **Fibre-reinforced**, helps reduce formation of cracks on timber flooring.
- **Self levelling**, therefore easy to apply in upright position with little effort.
- **Rapid curing**, already walkable after approx. 3 hours (at +23°C and 50% relative humidity).



TECHNICAL DATA

MATERIAL

Material base	special cement with additives + fibres
Components	1 part
Consistency	powder
Colour	grey
Labelling for	
- Regulation for hazardous goods on roads	non hazardous
- Regulation for hazardous substances	no labelling requirement for this product
<i>For further information refer to Health and Safety.</i>	
Shelf life	min. 6 months
Storage	in dry conditions, no permanent storage over +30°C
Packaging	25 kg PE lined heavy-duty paper bag

APPLICATION

Consumption	approx. 1.6 kg dry mortar per m ² and mm layer thickness
Layer thickness	
- under textile and elastic soft floorings	3 to 60 mm
- under rigid floor coverings such as ceramic and natural stone	10 to 60 mm
Working temperature	+5°C to +25°C
Mixing ratio	25 kg of PCI Periplan Extra + approx. 5.25 ltr to 5.5 ltr of water for partial quantities: 1 kg of PCI Periplan Extra + approx. 210 to 220 ml of water
Mixing time	min. 3 minutes
Consistency	fluid
Working time*	approx. 30 minutes
Curing time*	
- walkable after	approx. 3 hours
- can be covered after	
- ceramic tiles, carpets	approx. 1 day
- vapour-tight coverings	approx. 3 days
- parquet	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, sound and able to bear weight. It must be free from paint and other bond-inhibiting residues such as wax.
- The moisture level of timber substrates must not exceed the equilibrium moisture content of 6 to 12 mass percent (depending on type of wood).
- The moisture content of wooden chipboards and/or OSB boards must not exceed 10%. The wooden chipboard (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 wooden chipboards must be glued. If the boards are less than 25 mm thick and the distance between beams exceeds 40 cm it is recommended to install an additional reinforcement by means of the PCI Armiermatte.
- Loose, tongue or creaking boards must be fastened with screws. Solid timber substrates should 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 barrier strip PCI Pectape Silent.

PRIMING

- Use PCI Gisogrund 404 for priming. Shake well before use.

Substrate	Concrete/ cement screed; low-absorbent	Concrete/ cement screed; absorbent to high-absorbent	Anhydrite floated screed	Mastic asphalt screed	Ceramic
Primer					
PCI Gisogrund 404**					
Applications	2	2	1	1	1
Dilution	1:2	1:3	1:1	1:1	undiluted
Consumption approx.***	100-200 ml/m ²	100-200 ml/m ²	100-200 ml/m ²	100-200 ml/m ²	100-200 ml/m ²
Waiting time approx.*	3 hours	3 hours	12 hours	12 hours	12 hours

*At +23°C and 50% relative humidity.

**Application instructions: see respective product data sheet

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

**** Untreated (raw) floorboards require a second layer of primer after the first one is dry.

In this case use PCI Armiermatte GFM in addition.

APPLICATION PROCEDURE

- ① Place cool gauging water in a round, stable and clean mixing container, capacity approx. 30 ltr. Add PCI Periplan Extra and mix with a suitable paddle (e.g. from Collomix) attached to a high-speed electric drill for at least 3 minutes until lump-free.
- ② Pour PCI Periplan Extra onto the dry, cured primer. Spread mortar with a fine brush, surface scraper or trowel to the required layer thickness (from 3 to 60 mm).
- ③ Level and de-aerate PCI Periplan Extra with a suitable spiked roller during the application.
- ④ Avoid exposure to draught, extreme heat and direct sunlight during the application and curing process - for approx. 12 hours.
- ⑤ After approx. 1 day ceramic tiles can be laid on PCI Periplan Extra with the following PCI tile adhesives:
 - PCI Flexmörtel, PCI Nanolight, PCI Flexmörtel-Schnell, PCI Nanoflott flex, PCI Rapidflott,
 - For natural stone PCI Carraflex, PCI Carralight, PCI Carrament and/or PCI Carraflott NT.
 - When using other tile adhesives the suitability of these products should be tested in advance.
- ⑥ PCI Periplan Extra can be covered with carpet after approx. 1 day, with vapour-tight 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 bonded waterproof coating (e.g. PCI Lastogum) to PCI Periplan Extra prior to the installation of top coverings in accordance with the ZDB leaflet "Instructions on the application of waterproofing directly under tiles for indoor and outdoor use".
- Never add water or wet mortar to reconstitute a PCI Periplan Extra mix which has already begun to set.
- When mixing PCI Periplan Extra it is important to adhere to the indicated amount of gauging water. Additives are not allowed.
- PCI Periplan Extra must be prevented from running into edge joints by suitable measures, e.g. the self-adhesive barrier strip PCI Pectape Silent.
- **The thicker the layer of the smoothing compound the longer the waiting time until surface can be covered.**

PLEASE NOTE

- In combination with the glass fibre reinforcement PCI Armiermatte GFM and GFS as additional reinforcement and increasing the tensile strength PCI Periplan Extra can also be used as bonded levelling on mixed substrates, substrates with existing cracks and dummy joints as well as slightly vibrating substrates and/or substrates susceptible to vibrations. In these cases the minimum layer thickness of 5 mm (10 mm under ceramic and natural stone tiles) is important.
- In case of untreated (raw) timber floors lay down the glass fibre reinforcement GFM to the primed substrate loosely and with a minimum overlap of 1 cm. Then apply PCI Periplan Extra (min. layer thickness 5 mm).
- When laying ceramic and natural stone tiles on timber substrates a minimum layer thickness of 10 mm is necessary.
- Clean tools, machines and mixing equipment with water immediately after use; once the product is hard it can no longer be removed with water.
- Suitable tools are available from Collomix GmbH, Horchstraße 2, 85080 Gaimersheim/Germany, www.collomix.de.
- Shelf life: min. 6 months when stored in dry conditions, no permanent storage over +30°C.

HEALTH AND SAFETY

General information on cementitious products

PCI Periplan Extra 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). Avoid contact with eyes and prolonged contact with skin. In case of contact with eyes and skin immediately rinse with lots of water. In case of contact with eyes seek medical attention! Keep out of reach of children.

Low in chromates.

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

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Any subsequent publication supersedes this edition.
Edition March 2008.

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