

# Floor levelling compound **PCI Periplan**<sup>®</sup> under top coverings

**219**

## FIELDS OF APPLICATION

- For indoor use.
- For dry areas.
- For levelling and surface repair of rough, uneven concrete floors, cement, anhydrite and poured asphalt screeds (also heated screeds), ceramic coverings prior to laying top coverings such as ceramic and natural stone, PVC, textile, linoleum, wood strip flooring.
- For layer thicknesses from 2 to 30 mm; on poured asphalt screeds 2 to 10 mm.



Efficient levelling of floors with PCI Periplan prior to laying top coverings.

## FEATURES AND BENEFITS

- **Pumpable, can be applied by machine,** therefore high output is possible.
- **Self levelling,** can be applied in upright position with minimum effort.
- **Rapid curing,** can be walked on and tiled with ceramic coverings already after 3 hours (at +23°C and 50% relative humidity).
- **Smooth surface with only few pores,** can therefore be covered without additional trowelling.
- **Quality controlled in accordance with DIN 4102.**



## TECHNICAL DATA

### MATERIAL

Material base	special cement with additives
Grade of building material acc. to DIN 4102	A2
Components	1 part
Bulk density	approx. 1.4 g/cm <sup>3</sup>
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 when stored in dry conditions, no permanent storage over +30°C
Packaging	25 kg PE lined heavy duty paper bag

### APPLICATION

Consumption	approx. 1.6 kg of powder per m <sup>2</sup> and mm layer thickness
Layer thickness	2-30mm; on poured asphalt screeds 2-10mm
Working temperature	+5°C to +30°C
Mixing ratio	25 kg of PCI Periplan + approx. 5.5 – 5.75 ltr of water For partial quantities: 1 kg of PCI Periplan + approx. 220-230 ml of water
Mixing/conveyor technique	e.g. Collomatic 65/2K; Putzmeister S 5 with pan mixer, SP 11 or MP 25 with agitator; PFT G4 with Rotomix, N2V with blade-type concrete mixer Multimix, M-Tec Duo mix 2000
Slake time	3 minutes
Consistency	thin fluid
Working time*	approx. 30 minutes
Curing time*	
- walkable after	approx. 3 hours
- able to bear weight after	approx. 3 days
- ready for tiling with ceramic	when walkable
- ready for laying wall-to-wall carpet, synthetic coverings, floating parquet after	approx. 3 days at a moisture content ≤ 2% CM
Follow-up treatment	protect PCI Periplan from too rapid dehydration for approx. 12 hours.

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

**PREPARATION OF SUBSTRATE**

■ The substrate must be clean, dry, sound and firm. It must be free from coats of paint and other bond-breaking residues. Remove heavy contamination and bond-inhibiting residues and/or surfaces by mechanical means (shot blasting, grinding, milling), residues such as oil and grease with PCI Entöler (oil remover). Fill spalled areas and holes with suitable PCI repair mortars, seal cracks with PCI Apogel. The pull-off strength of the prepared area must not fall below 1.0 N/mm<sup>2</sup> on average.

**PRIMING**

Substrate	Concrete/ cement screed; low-absorbent	Concrete/ cement screed; absorbent to high-absorbent	Anhydrite floated screed	Mastic asphalt screed	Ceramic
<b>Primer</b>					
<b>PCI Gisogrund**</b>					
Applications	1	2	1	1	
Dilution	1:1	1:1	undiluted	undiluted	
Consumption approx.	100-200 ml/m <sup>2</sup>	150-250 ml/m <sup>2</sup>	80-150 ml/m <sup>2</sup>	80-150 ml/m <sup>2</sup>	
Waiting time approx.*	1 hours	3 hours	3 hours	12 hours	
<b>PCI Gisogrund Rapid**</b>					
Applications	1	1	1		
Dilution	undiluted	undiluted	undiluted		
Consumption approx.	50-150 ml/m <sup>2</sup>	50-150 ml/m <sup>2</sup>	50-150 ml/m <sup>2</sup>		
Waiting time approx.*	5 minutes	5 minutes	5 minutes		
<b>PCI Gisogrund 404**</b>					
Applications	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.*	3 hours	3 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.

## APPLICATION PROCEDURE

- ① Place gauging for 25 kg of PCI Periplan in a sturdy, clean and round (Ø approx. 35 cm) mixing vessel of appropriate height, capacity approx. 30 ltr. Add PCI Periplan and mix with a suitable paddle (e.g. by Collomix) attached to a high-speed electric drill for at least 3 minutes until free of lumps.
- ② Leave PCI Periplan to stand for approx. 3 minutes and remix briefly.
- ③ In case of large areas up to approx. 300 m<sup>2</sup> use e.g. the Collomatic 65/2 K mixer, or apply by pumping, e.g. with Putzmeister S 5 with pan mixer, SP 11, MP 25 with agitator, PFT G 4 with Rotomix, N2V with blade-type concrete mixer Multimix or M-Tec Duo mix 2000. When using the Collomatic 65/2 K mixer work with the stirrer suitable for pourable screeds. Place gauging water in a vessel, add PCI Periplan and mix for at least 3 minutes.
- ④ Pour PCI Periplan onto the dry, cured surface. Spread mortar with a fine brush, surface scraper or float to the required layer thickness (from 2-30 mm).
- ⑤ De-aerate PCI Periplan with a suitable spiked roller during the application.
- ⑥ When a floor levelling with PCI Periplan in combination with the reinforcement mats PCI Armiermatte GFM and GFS is required ensure a minimum layer thickness of 5 mm! Pour PCI Periplan to the dry primer and the reinforcement mats laid on top of the primer, spread with a trowel (**do not use a surface scraper!**), and de-aerate with a spiked roller.
- ⑦ Avoid draughts, extreme heat and direct sunlight during the application and curing process – for approx. 24 hours.
- ⑧ Ceramic coverings can be laid with PCI tile adhesives when PCI Periplan is walkable (approx. 3 hours at 23°C and 50% rel. humidity). When using other tile adhesives the suitability of the products should be tested in advance.

## PLEASE NOTE

- Do not use PCI Periplan at substrate temperatures below +5°C and above +30°C.
- Moisture rising from the substrate must be prevented by suitable measures.
- Substrate and ambient conditions have an effect on the curing times.
- Never add water or fresh PCI Periplan to reconstitute a mortar mix which has already begun to set.
- When mixing PCI Periplan it is essential that the indicated amount of gauging water is strictly followed. Additives are not allowed.
- Take appropriate measures, such as the self-adhesive barrier strip PCI Pecitape Silent, to prevent PCI Periplan from overflowing into perimeter joints and adjoining areas.
- When levelling poured asphalt substrates with PCI Periplan the maximum layer thickness of 10 mm must not be exceeded.
- For the application of PCI Periplan in privately used wet rooms (without floor drain) apply the waterproofing PCI Lastogum or PCI Seccoral 1K/2K prior to laying ceramic.
- When levelling heated screeds with PCI Periplan the leaflet „Ceramic tiles, natural stones and concrete ashlar on heated flooring structures“ issued by the Central Association of the German Building Industry must be followed.
- Wooden substrates should be levelled with PCI Periplan Extra.
- For substrates with adhesive residues we recommend to apply PCI Epoxigrund 390 as primer, applied twice and sprinkled with sand.
- Clean tools, machines and mixing equipment with water immediately after use; once the product is dry it can no longer be removed with water.
- Suitable tools are available from Collomix GmbH, Horchstraße 2, 85080 Gaimersheim/Germany, [www.collomix.de](http://www.collomix.de).
- Storage: in dry conditions, no permanent storage over +30°C.

## HEALTH AND SAFETY

### General information on cementitious products

PCI Periplan 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 thoroughly rinse with plenty of water. In case of contact with eyes seek prompt medical attention. Keep out of reach of children.

Low in chromates.

For wearing surfaces see the information in the respective technical data sheets.

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

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