

Levelling compound

PCI Periplan[®] fein

for use under top coverings

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FIELDS OF APPLICATION

- For indoor use.
- For dry areas.
- For levelling and surface repair of rough, uneven concrete floors, cement, anhydrite and mastic asphalt screeds as well as ceramic coverings prior to laying ceramic and natural stone, textile floor coverings, PVC coverings, linoleum.
- Suitable also for heated screeds.
- For layer thicknesses from 0.5 mm to 15 mm; on mastic asphalt screeds up to 5 mm.



The very good self-levelling properties of PCI Periplan fein enable the application by surface scraper in upright position for efficient and very smooth levelling of floors.

FEATURES AND BENEFITS

- **Pumpable, can be applied by machine**, therefore high efficiency possible.
- **Very good self levelling properties**, therefore application in upright position with little effort.
- **Rapid curing**, therefore walkable and ready for ceramic coverings after approx. 3 hours (at +23°C and 50% relative humidity).
- **Smooth surface with few pores**, can be covered without additional levelling or grinding.



TECHNICAL DATA

MATERIAL

Material base	Special cement with additives. No injurious silica dust during the application.
Components	1 part
Consistency	powder
Grade/max. grain size	0.5 mm
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 in dry conditions, no permanent storage over +30°C
Packaging	25 kg PE lined heavy duty paper bag

APPLICATION

Consumption	approx. 1.6 kg powder and mm layer thickness
Layer thickness	0.5 mm to 15 mm; for layer thicknesses exceeding 15 mm up to 30 mm PCI Periplan fein must be blended with silica sand approx. 1:1, grade 0.7-1.2 mm or 1-2 mm. On mastic asphalt screeds up to 5 mm.
Slake time	approx. 3 minutes
Working temperature	+5°C to +25°C
Mixing ratio	6 to 6.5 ltr of water + 25 kg of PCI Periplan fein For partial quantities: 240 to 260 ml of water + 1 kg of PCI Periplan fein
Mixing/conveyor technique	up to approx. 300 m ² e.g. Collomatic 65/2K; from approx. 300 m ² e.g. Putzmeister S 5 with pan mixer, SP 11 Beliso; MP 25 with remixer, PFT G 4 with Rotomix, N2V with Multimix, M-Tec Duo mix 2000 a.o.
Mixing time	until lump-free, at least 3 minutes
Consistency	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 coverings	as soon as walkable
- ready for vapour-tight coverings after	approx. 3 days at residual moisture content of 3% (measured with CM meter)

* 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 able to bear weight. It must be free from paint and other bond inhibiting residues. Remove heavy contamination and bond inhibiting residues and/or surfaces mechanically (shot blasting, grinding, milling), oil and fat residues with PCI Entöler (oil remover). Fill spillings and holes with suitable PCI repair mortars, seal cracks with PCI Apogel. The pull off strength of the substrate such prepared must on average not be less than 1.0 N/mm².

PRIMING

Substrate	Concrete/ cement screed; low-absorbent	Concrete/ cement screed; absorbent to high-absorbent	Anhydrite floated screed	Mastic asphalt screed	Ceramic
Primer					
PCI Gisogrund**					
Applications	1	2	1	1	
Dilution	1:1	1:1	undiluted	undiluted	
Consumption approx.	100-200 ml/m ²	150-250 ml/m ²	80-150 ml/m ²	80-150 ml/m ²	
Waiting time approx.*	1 hours	3 hours	3 hours	12 hours	
PCI Gisogrund Rapid**					
Applications	1	1	1		
Dilution	undiluted	undiluted	undiluted		
Consumption approx.	50-150 ml/m ²	50-150 ml/m ²	50-150 ml/m ²		
Waiting time approx.*	5 minutes	5 minutes	5 minutes		
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 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 fein in a round, stable and clean mixing vessel, capacity approx. 30 ltr. Add PCI Periplan fein and mix with a suitable paddle (e.g. from Collomix) attached to an electric drill for at least 3 minutes until free of lumps.
- ② Allow mixed PCI Periplan fein to slake for approx. 3 minutes and remix briefly.
- ③ Pour PCI Periplan fein onto the cured, primed surface. Spread mortar with a surface scraper to the required layer thickness (from 0.5 to 15 mm).
For thicknesses below 5 mm it is recommended to spread PCI Periplan fein either by surface scraper in upright position or by float or pointed trowel.
- ④ In case of large areas work with mixing and conveyor technique (see table „Technical Data/Application“).
- ⑤ During the application of PCI Periplan fein in layer thicknesses exceeding 5 mm level and de-aerate the layer with a spiked roller.
- ⑥ During the application and curing process (for approx. 12 hours) avoid draughts, extreme heat and direct sunlight.
- ⑦ At layer thicknesses from 15 mm to 30 mm apply PCI Periplan or blend PCI Periplan fein with silica sand, grade 0.7–1.2 mm or 1–2 mm, mixing ratio 1:1. Mix PCI Periplan fein with the indicated amount of water and add the silica sand producing a flowable mixture which can be easily applied.
- ⑧ After PCI Periplan fein is walkable (approx. 3 hours), ceramic coverings can be fixed with PCI tile adhesives. When using other tile adhesives the suitability of the products should be tested prior to the application. Depending on substrate and surrounding conditions, textile floor coverings or elastic coverings can be laid on PCI Periplan fein after approx. 3 days at a moisture content of 3% (measured by CM meter).

PLEASE NOTE

- Rising moisture from the ground must be prevented by suitable measures.
- Priming with PCI Gisogrund is not required on sound, low-absorbent cementitious substrates. It might be possible that air bubbles rise from the substrate. The porous surface should be sanded prior to the application of subsequent coverings if necessary.
- Never add water or fresh PCI Periplan fein to reconstitute a mortar mix which has already begun to set.
- When mixing PCI Periplan fein the indicated amount of gauging water must be observed. Additives are not allowed.
- PCI Periplan fein must be prevented from running into edge and movement joints by suitable measures, e.g. temporary barrier strips.
- When levelling heated screeds with PCI Periplan fein the leaflet „Ceramic tiles, natural stone and concrete ashlar on heated flooring structures“ issued by the Central Association of the German Building Trade must be followed.
- When PCI Periplan fein blended with silica sand is applied by mixing and conveyor technique it should be checked if the used pump is suitable for the maximum grain size.
- For the application of PCI Periplan fein in thick layers it should be ensured that the material is applied and levelled quickly.
- When levelling mastic asphalt screeds with PCI Periplan fein it is not allowed to exceed a max. layer thickness of 5 mm. Mastic asphalt screeds not completely sprinkled with sand as well as old mastic asphalt screeds must be primed with PCI Epoxigrund 390. The newly-primed surface must be sprinkled with sand.
- PCI Periplan fein is not suitable for the installation on poured or compressed asphalt tiles.
- Suitable tools are available from e.g. Collomix GmbH, Horchstraße 2, 85080 Gaimersheim/Germany, www.collomix.de.
- Clean tools, machines and mixing equipment with water immediately after use; once the product is hard it can no longer be removed with water.
- Shelf life: min. 6 months when stored in dry conditions, no permanent storage over +30°C.

HEALTH AND SAFETY

PCI Periplan fein 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 skin and eyes immediately rinse with plenty of water. In case of contact with eyes seek prompt medical attention! Keep out of reach of children.

Low in chromates according to TRGS 613.

The instructions in the respective technical data sheets apply to wearing surfaces.

For further information see the PCI Material Safety Data Sheet.

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In view of widely varying site conditions and fields of application of our products this data sheet is meant to provide general application guidelines only. This information is based on our present knowledge and experience. The customer is not released from the obligation to conduct careful testing of suitability and possible application for the intended use. The customer is obliged to contact the technical help-line for fields of application not expressly stated in the data sheet under "Fields of Application". Use of the product beyond the fields of application as stated in the data sheet without previous consultation with PCI and possible resulting damages are in the sole responsibility of a customer. Liability is accepted for incomplete or incorrect particulars in our data sheets only in the event of intent or gross negligence, without prejudice to claims under product liability laws. All transactions are subject to our Terms of Sale and Supply.



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