

Floor levelling compound

PCI Periplan

under top coverings

USES

- 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.

USER 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**, test certificate no. P-2003-0225.

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 ³
Consistency	powdery
Colour	grey
Identification according to - Regulation for hazardous goods on roads - Regulation for combustible liquids - Regulation for hazardous substances <i>For further information refer to paragraph Safety.</i>	non hazardous not applicable no labelling required
Shelf life	approx. 6 months if stored cool and dry
Packaging	25 kg PE lined heavy duty paper bag
Application	
Consumption	approx. 1.6 kg of powder per m ² and mm layer thickness
Layer thickness (according to aggregate)	2-30mm; on poured asphalt screeds 2-10 mm
Working temperature	+5°C to +25°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 - able to bear weight after - ready for tiling with ceramic coverings - ready for laying carpet flooring, synthetic coverings, floating parquet after	approx. 3 days approx. 3 hours when walkable approx. 3 days at a moisture content < or = 3% CM
Follow-up treatment	protect PCI Periplan from too rapid dehydration for approx. 12 hours.

* At +23°C and 50% humidity. Higher temperatures reduce, lower temperatures and higher humidity increase these times.

Substrate Preparation

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/mm² on average.

Priming

Priming on cementitious substrates

Use PCI-Primer G for priming and thoroughly mix prior to the application. Prime substrate with approx. 150 ml/m² of PCI-Primer G, diluted 1:1 with water. Pour diluted PCI-Primer G to the prepared substrate and spread with a float not leaving any puddles. Absorbent substrates require two coats. The second coat with approx. 60 ml/m² of PCI-Primer G, diluted 1:1 with water, can be applied approx. 1 hour after the first coat. Allow the primer to dry until sound and tack-free (approx. 12 hours).

Priming on anhydrite and poured asphalt screeds

Use PCI-Primer G for priming. Anhydrite screeds must be sanded and hoovered, the residual moisture content must not exceed 0.5% (measured by CM meter). Thoroughly stir PCI-Primer G before use. For priming apply undiluted PCI-Primer G to the substrate (consumption approx. 120 ml/m²). Allow the primer to dry until sound and tack-free (approx. 12 hours). On **compressed asphalt flags**: Please contact the Technical Advisory Service.

Priming on ceramic coverings

Use PCI-Primer 303 for priming. **Wear safety goggles and protective gloves during application of PCI-Primer 303.** Stir PCI-Primer 303 very thoroughly. Spread primer with a float, soft brush or flat bristle brush onto the substrate and apply a thin coat in criss-cross method. Avoid puddles forming! (Consumption: approx. 130 ml/m²).

Fast-acting primer on mineral substrates

Thoroughly stir PCI-Gisofix NT before use. Decant required amount of PCI-Gisofix NT in an appropriate container. Then apply **undiluted** PCI-Gisofix NT, e.g. with fine-pored foamed roll, evenly on to the substrate until saturated. Do not overwater! After PCI-Gisofix NT has formed a film (changing of colour, primer turns almost transparent) PCI-Periplan can immediately be applied to anhydrite screeds.

PCI-Primer 404 can also be used as a primer for all kinds of substrates which are suitable for PCI-Periplan.

Application: see technical data sheet no. 516.

Safety

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 skin contact. 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 according to TRGS 613. The information in the respective technical data sheets apply to wearing surfaces.

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

Application

- Place gauging water in a hobcock, add PCI-Periplan and mix for at least 3 minutes with a suitable stirrer (e.g. available from Collomix) attached to a powerful electric drill until all lumps have disappeared.
- Allow mixed PCI-Periplan to slake for approx. 3 minutes and remix briefly.

- In case of large areas up to approx. 300 m² use e.g. the Collomatic 65/2 K mixer, or apply by pumping (over approx. 300 m²) 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 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.
- our PCI-Periplan onto the hardened, primed surface. Spread mortar with a fine brush or squeegee in the required layer thickness (from 2-30 mm).
- De-aerate PCI-Periplan with a suitable spiked roller during the application.
- Avoid draughts, extreme heat and direct sunlight during application and curing process - for approx. 24 hours.
- Ceramic coverings can be laid with PCI tile adhesives when PCI-Periplan is walkable (approx. 3 hours). When using other tile adhesives the suitability of the product should be tested in advance.

PLEASE NOTE

- Do not use PCI-Periplan at substrate temperatures below +5°C and above +25°C.
- Moisture rising from the substrate must be prevented by suitable measures.
- Substrate and ambient conditions have effect on the curing times
- Never add water or fresh PCI-Periplan to a mortar mix which has already begun to set.
- When mixing PCI-Periplan it is essential that the indicated amount of gauging water is adhered to. Additives are not allowed.
- PCI-Periplan must be prevented from running into edge joints by suitable measures, e.g. sound insulation tape or edge strips.
- When levelling poured asphalt substrates with PCI-Periplan the maximum layer thickness of 10 mm must not be exceeded.
- 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.
- Clean tools, machines and mixing equipment with water immediately after use; once the product has dried it can no longer be removed with water.
- Suitable tools can be supplied by Collomix GmbH, Horchstraße 2, D-85080 Gaimersheim, www.collomix.de
- Storage: in a dry and cool location.

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