

PCI CN 70

Floor Leveling Compound

Floor leveling compound, self-leveling, for layer thicknesses from 0.5 to 10 mm

PCI CN 70



PRODUCT FEATURES

- ▶ Self-leveling
- ▶ For indoor use
- ▶ Can be walked on after 3 hours
- ▶ Pumpable
- ▶ Also for heated screeds

FIELDS OF APPLICATION

For indoor use.

For leveling substrates before laying tiles or other floor coverings.

For smoothing and leveling:

- Cementitious and calcium sulphate screeds
- Rough concrete floors
- Heated screeds

SUBSTRATE PREPARATION

Substrates must be sound, clean, free from cracks, firm, dry, and free from release agents and be in accordance with the applicable ATV standards. Any foreign matter or substances which could impair adhesion (e.g. cement slurries and sintered layers) must be removed using suitable machines (by sanding, milling or shot blasting). Old soft layers (such as adhesive residues) need to be largely removed to prevent cracking.

Dense, smooth surfaces such as ceramic tiles and slabs must always be thoroughly cleaned and sanded. Calcium sulphate screeds must always be sanded and vacuumed to remove any sanding dust. As a general principle, the residual moisture content of the substrate must not exceed the following values (indicated in CM %):

	Heated	Non-heated
Cementitious screed	1.8 %	2.0 %
Calcium sulphate screed	0.3 %	0.5 %

Appropriate action must always be taken to prevent the ingress of water (e.g. use of waterproofing membranes or special primers). This applies especially to bonded structures and concrete roofs. Cracks may be repaired effectively using



PCI Apogel SH or PCI CK 740 epoxy resin. Before applying the leveling compound, large hollow spaces and damaged areas must be leveled using PCI repair mortar. The repaired substrates must be primed using PCI CT 17 or PCI Gisogrund.

APPLICATION

Mix with the specified quantity of clean water (see technical data) in a mixing pail with a capacity of 30 liters using an appropriate mixer (e.g. Collomix DLX) at about 600 rpm. Mix for about two minutes until the mixture is free from any nodules or lumps. Pour the leveling compound onto the prepared and primed substrate. Distribute it using a broom, squeegee, screed leveling bar or smoothing trowel to obtain the layer thickness required. Level and aerate the layer using an appropriate spiked roller. PCI CN 70 can be pumped using appropriate equipment. (Please follow the instructions given by the equipment manufacturer!)

PLEASE NOTE

Do not mix with other leveling compounds. Use the product only in dry conditions, at temperatures between +5 °C and +30 °C. Ideally, the substrate temperature should be 15 °C, the air temperature 18°C and the relative humidity between below 75%. If the leveling compound dried too rapidly (as a result of heated rooms or highly absorbent substrates), there is a risk of cracking. The fresh leveling layer must be protected against rapid drying and covered with tiles or other floor coverings within 14 days if possible. If it is not possible to cover the leveling layer within 14 days, it must be protected against rapid drying and precipitation by appropriate precautions such as the use of protective foils. Do not use this product as a screed or floor without coating. In accordance with the ZDB Code of Practice "Notes on bonded waterproofing with coatings and coverings made from tiles and slabs in indoor and outdoor applications" the leveling compound must be protected from moisture using a bonded waterproofing product (such as PCI CL 51 or PCI Seccoral) in wet rooms and areas with exposure to moisture before the tiles are laid.

Cleaning:

Fresh leveling compound residue can be removed using water. When the product has hardened, it can only be removed mechanically.

Health, safety and environmental protection:

Chromate-reduced. Contains cement. Has an alkaline reaction with moisture. Protect eyes and skin. Wear the personal protective equipment required. In case of contact, immediately wash thoroughly with water. In case of contact with the eyes, seek medical attention. Information for allergy sufferers is available on: +49 (0) 211 797 0 (key word: "emergency"). Keep the product away from drains, waterways and the soil. Further instructions:

- Safety data sheet available at www.pci-augsburg.de/schwarz
- Product group information issued by the Health and Safety Body of the Building Trade


Recommended specialist information:

- Technical data sheets of other PCI products
- ATV DIN 18 352 "Wall and floor tiling"
- ATV DIN 18 332 "Natural stone work"
- ATV DIN 18 365 "Flooring works"
- ATV DIN 18 356 "Laying of parquet flooring"
- "Notes on the assessment and preparation of the surface of flowable anhydrite screeds" issued by Bundesverband Estrich und Belag e.V. (BEB), Troisdorf (www.beb-online.de)
- Information sheet no 4 of IWM (Industrieverband WerkMörtel e.V.)
- "Assessment and Treatment of the surface of flowable calcium sulphate screeds" issued by Industrieverband WerkMörtel e.V., Duisburg
- "Assessment and preparation of substrates" issued by Bundesverband Estrich und Belag e.V. (BEB), Troisdorf
- "Preparation of screeds for floor laying work" issued by Industrieverband WerkMörtel e.V. Duisburg
- "Assessment and preparation of substrates" TKB (Technical Committee for Construction Adhesives) code of practice no. 8
- Codes of practice issued by Fachverband Fliesen und Naturstein (Tile and Natural Stone Specialist Association) within Zentralverband Deutsches Baugewerbe e. V.

Advice for architects and contractors is available over the phone on
+49(821) 5901-171 or by email at pci-info@pci-group.eu.
You will find further data and information at
www.pci-augsburg.de/schwarz.

TECHNICAL DATA

GISCODE:	ZP 1
GEV Ecode:	EC1
Bulk density:	Approx. 1.5 kg/dm ³
Mixing ratio:	Approx. 6.5 l of water for 25 kg
Working time:	Approx. 25 minutes
Working temperature:	+5 °C to +30 °C
Can be walked on after:	Approx. 3 hours
Layer thickness:	0.5 - 10 mm
Can be tiled over:	With tiles and slabs: after about 3 hours With other coverings: after about 24 hours.
Consumption:	Approx. 1.5 kg/m ² per 1 mm of layer thickness
Suitable for parquetry:	With elastic adhesive
Storage:	If stored in a cool, dry place, shelf life approx. 6 months. Seal opened containers tightly and use up soon as possible.
Package size:	25 kg sack
Disposal:	Empty packages may be recycled. Waste code number (EWC): 17 01 01



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PCI CN 70 (DE0539/02)
Bodenspachtel
EN 13813:2002

Cementitious screed material
for use internally in buildings
EN 13813 CT-C25-F5

Reaction to fire	A2fl-s1
Release of corrosive substances	CT
Compressive strength	C25
Flexural strength	F5

In view of widely varying site conditions and fields of application of our products this technical 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 technical data sheet under "Fields of Application". Use of the product beyond the fields of application as stated in the technical data sheet without previous consultation with PCI and possible resulting damages are in the sole responsibility of the customer. All descriptions, drawings, photographs, data, ratios, weights a.o. stated herein can be changed without advance notice and do not represent the condition of the product as stipulated by contract. It is the sole responsibility of the recipient of our products to observe possible proprietary rights as well as existing laws and provisions. The reference of trade names of other companies is no recommendation and does not exclude the use of products of similar type. Our information only describe the quality of our products and services and are no warranty.

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This technical data sheet supersedes all previous editions, the latest edition is always available on the Internet under www.pci-augsburg.de/schwarz.