

Ready-mixed flowable screed

PCI Novoment[®] Flow

for self-leveling cement screeds



Fields of application

- For indoor and outdoor use.
- For areas exposed to permanent wetness.
- For fast-curing bonded screeds and screeds installed on an isolating or insulating layer.
- Suitable for heated screeds.
- For layer thickness from 20 to 80 mm.
- Very low emissions, GEV-EMICODE EC 1 PLUS.

Features and benefits

- Can be tiled after approx. 1 day, walkable after approx. 6 hours.
- Ready-mixed mortar, therefore no on-site mixing with sand required.
- Self-leveling, can be applied in upright position.
- Long processing time of approx. 1 hour despite short curing time.
- Insensitive to moisture.



Technical data

Material

Material base	special cement with additives and aggregates
Largest grain	2 mm
Components	single component
Bulk density	approx. 1.7 g/cm ³
Consistency	powder
Color	grey
Behavior in fire	A1 _{fl}
Strength to DIN EN 13892-2	
Compressive strength after 28 days	≥ 60 N/mm ²
Bending tensile strength after 28 days	≥ 7 N/mm ²
Storage	dry, no permanent storage over +30°C
Shelf life	min. 6 months
Packaging size	25 kg PE lined heavy duty paper bag stock no. 3960/1

Application

Consumption	approx. 20 kg/m ² and cm layer thickness
Quantity of gauging water/mixing ratio	approx. 3.2 liters of water + 25 kg of PCI Novoment Flow
Layer thickness	
- minimum	approx. 20 mm for bonded screeds; approx. 30 mm for screeds on isolating or insulating layer
- maximum	approx. 80 mm
- for heated screeds	min. 30 mm to cover pipes
Processing temperature	+5°C to +25°C
Mixing tools	forced action mixer, flow mixer
Conveying units	spiral pump or piston pump
Mortar consistency	self-leveling
Spread	approx. 22-26 cm
Processing time*	approx. 60 minutes
Curing time*	
- walkable after	approx. 6 hours
Can be covered	
- with ceramic tiles and flagstones after	approx. 1 day
- with wall-to-wall carpet, parquet and vapor-impermeable coverings after	approx. 3 days (at max. 2 CM %)
Temperature resistance	-30°C to +80°C
Frost resistance	yes

* Times are reached when the temperatures of mortar, ambient air and substrate are approx. +23°C over the entire period and the relative humidity does not exceed 50%.
See also "General information on the application of rapid setting cement screeds".

Preparation of substrate

■ For bonded screeds to DIN 18560-3:

The substrate must be clean, structurally sound, able to bear weight, free from grease and other residues. Remove heavy contamination

mechanically, residues of oil and wax with PCI Entöler oil remover. Smoothed surfaces with cement slurry are to be milled or shot-blasted (Blastrac). The tear-off strength of the prepared substrate must not fall below 1.0 N / mm² on average.

■ For screeds on thermal insulation or separating layer according to DIN 18560-2/-4:

Edge insulation strips must be laid along walls and fixtures. The separating layer (e.g. PE film) must be installed in such a way that PCI Novoment Flow is prevented from spreading, e.g. into the insulation.

Priming

Prime cementitious substrates with PCI Gisogrund 404.

1 Wear safety goggles when processing PCI Gisogrund 404.
Stir PCI Gisogrund 404 thoroughly.

2 Spread the primer with a flat brush, soft broom or a broad brush on the cleaned and pretreated substrate and coat in the "criss-cross method". Avoid puddles forming!

Cement screeds: apply two coats of

PCI Gisogrund 404, diluted 1: 3 with water.

Concrete substrates: apply two coats of PCI Gisogrund 404, 1: 2 diluted with water.

3 PCI Novoment Flow can be applied when the primer is dry.

Application procedure

The German standards DIN 18560 and DIN 18353 must be followed for the application of PCI Novoment Flow.

1 Mixing

1.1 Single bags: put gauging water in an adequately big bucket, add PCI Novoment Flow and mechanically mix with a suitable stirrer or mixing

tool for at least 3 minutes until free of lumps. The amount of water required for a 25 kg bag of PCI Novoment Flow is about 3.2 liters.

1.2 Mix larger quantities in a forced action mixer or flow mixer and convey by pumping.

2 Application

Pour PCI Novoment Flow on the isolation layer or the dry, cured primer. Spread mortar to exact height using a wobbling device, spiked roller or hard broom. Protect screed from rapid drying for approx. 12 hours. Avoid draught, extreme heat and direct sunlight during and after the application for 24 hours.

Information on the application as heated screed

■ Application details to DIN 18560-2 and DIN EN 1264-4.

Preheating phase:

PCI Novoment Flow screeds can be heated after 3 days. Initial preheating takes place at a temperature of +25°C to be maintained for 3 days. The maximum flow temperature is set and maintained for another 4 days. Then the heating system is switched off. Ensure

adequate air supply and ventilation during the heating and cooling phase. Avoid draught! Do not allow the room temperature to drop below +15°C and the temperature of the screed surface to fall below +18°C. The heating contractor must draw up a report on the initial heating operation and subsequent commissioning. The report must be handed over to those concerned and

must contain the following information:

1. Data on the pre-heating operation with respective flow temperatures.
2. Maximum flow temperature attained.
3. Operating condition and outside temperature at the time of handing over.
4. Date of commissioning.

Screeds which are heated up this way can be covered with a wide variety of top coverings.

Please note

■ Do not apply PCI Novoment Flow screeds at substrate temperatures below +5°C and above +25°C.

■ The general guidelines for cement screeds must be observed. The fast-curing properties of PCI Novoment Flow must be taken into consideration.

■ Use only whole bags of PCI Novoment Flow.

■ PCI Novoment Flow is not suitable for sloped screeds.

■ Screed thickness and arrangement of joints must be in accordance with DIN 18560.

■ PCI Novoment Flow must not be mixed with cement, fast-setting bonding agents, ready-mixed screeds, dry mortars, as well as fibers, admixtures or additives and/or blended with aggregate mixes.

■ Apply PCI Novoment Flow within approx. 60 minutes (at approx. +23°C) after mixing. Higher temperatures increase, lower temperatures reduce the time given.

■ Never add water or fresh PCI Novoment Flow to reconstitute a mortar mix which has already begun to set.

■ We recommend to cover the installation with construction foil until walkable for the application outdoors where early exposure to rain is expected, in extreme heat or strong wind.

■ Uncovered screeds prepared for further covering absorb moisture in unfavorable climatic conditions (e.g. high humidity). The residual moisture in the screed can be reduced by taking appropriate measures (e.g. air dehumidification).

■ Clean tools and mixing buckets with water immediately after use; the cured product can no longer be cleaned with water.

Declaration of Performance

The Declaration of Performance can be downloaded as pdf file under www.pci-augsburg.eu/dop.

Information on the safe use

PCI Novoment Flow contains cement. Causes serious eye damage. Causes skin irritation. Keep out of reach of children. Wear protective gloves (e.g. cotton gloves soaked in nitrile) and eye/face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention. IF ON SKIN: Wash with plenty of soap and water and put skin cream on (pH value approx. 5.5). IF SKIN IRRITATION OCCURS: Get medical advice/attention. The product is non-flammable.

No special fire precautions are therefore required.

Water hazard class: 1 (self-rating)
Giscode ZP 1

For further information: see PCI Material Safety Data Sheet.

Services for architects and designers

Consultations at the workplace, supplementary information, testing certificates and sample descriptions can

be requested from professional advisors and at the company headquarters.

Disposal of emptied PCI sales packaging

PCI participates in an area-wide waste disposal system for sales packaging completely emptied. DSD – Duales System Deutschland (Dual System Germany, contract number 1357509) is our partner for waste disposal. PCI sales packaging completely emptied can be disposed of via DSD in accor-

dance with the symbol printed on the packaging. For further information on disposal see the safety and environmental information in the price list and also on the Internet at http://www.pci-augsburg.eu/de/service/disposal_instructions.html.

The working conditions on construction sites and the areas of application of our products are highly diverse. In the technical data sheets, we can only give general instructions for the use of our products. These are in accordance with the information currently available to us. Architects, engineers and the users of our products are under an obligation to verify the suitability of our products and the feasibility of using them for their specific applications. For applications not explicitly referred to under "Area of applications" in the technical data sheet, architects, engineers and users of our products are under an obligation to obtain technical advice from PCI. In the event that the product is used outside the scope of applications defined in the technical data sheet without obtaining the advice of PCI, the user of the product will be liable for any loss or damage arising as a result of the use of the product. All the descriptions, drawings, photographs, data, conditions, weights, etc. stated in the technical data sheet may be changed without notice and do not represent the agreed properties of the product. Recipients of our products are under an obligation to comply with any proprietary rights and any applicable laws and regulations under their own responsibility. If trade names used by other companies are referred to in this technical data sheet, such references do not represent a recommendation for the use of such products and do not exclude the use of other comparable products. The information which we provide only describes the characteristics of our products and services and does not represent any guarantee. A guarantee of specific properties or the fitness of the product for a specific purpose cannot be derived from the information which we provide. We will not be liable for any incomplete or incorrect information in our information material except in the case of wilful act or omission or gross negligence. This disclaimer does not affect any claims under the Produkthaftungsgesetz (Product Liability Act).



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certified quality
management system

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