

Ready-mixed, light screed mortar

PCI Novoment® Light

for cement screeds with low dead weight

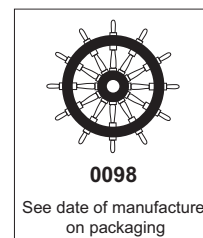


Fields of application

- For indoor and outdoor use.
- For areas exposed to permanent wetness.
- For light bonded screeds and screeds installed on an isolating or insulating layer.
- Light mortar for refurbishment of concrete floors and cement 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.
- Low density, therefore ideal for refurbishing old buildings or renovation at a later stage.
- Low consumption, approx. 10 kg/m² and cm layer thickness.
- Long processing time, can be worked over and smoothed for approx. 1 hour despite short curing time.
- Insensitive to moisture, therefore suitable for areas exposed to permanent wetness.



Technical data

Material

Material base	special cement with additives and aggregates
Largest grain	2 mm
Components	single component
Bulk density	approx. 0.7 g/cm ³
Consistency	powder
Color	gray
Behavior in fire	A1 _{fl}
Strength to DIN EN 13892-2	
Compressive strength after 28 days	≥ 20 N/mm ²
Bending tensile strength after 28 days	≥ 4 N/mm ²
Storage	dry, no permanent storage over +30°C
Shelf life	min. 6 months
Packaging size	15 kg PE lined heavy duty paper bag stock no. 3959/5

Application

Consumption	approx. 10 kg/m ² and cm layer thickness
Quantity of gauging water/mixing ratio	approx. 3 liters of water + 15 kg of PCI Novoment Light
Layer thickness	
- minimum	approx. 20 mm for bonded screeds; approx. 40 mm for screeds on isolating or insulating layer
- maximum	approx. 80 mm
Processing temperature	+5°C to +25°C
Mixing tools	forced action mixer
Conveying units	pneumatic
Mortar consistency	stiff-plastic
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). Prewet the prepared substrate in due time, keep damp, apply PCI Repahaft bonding agent and PCI Novoment Light screed mortar wet on wet.

Application procedure

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

1 Mixing

1.1 Mix larger quantities in a forced action mixer! Fill PCI Novoment Light in a forced action mixer and mix with water for approx. 1 minute while mixer is running until a stiff-plastic consistency is produced. The amount of water

required per 15 kg bag of PCI Novoment Light is about 3 liters.

1.2 Single bags of PCI Novoment Light can also be mixed in a suitable mixing bucket (e.g. hobbock) with a basket stirrer attached to an electric drill. Fill adequate amount of gauging water in the bucket, add PCI Novoment Light and mix to a stiff-plastic consistency.

2 Application

Spread mortar using a shovel, finishing trowel or surface scraper, compact, scrape off with a browning rod, rub down with a wooden board and smooth if necessary. Protect newly applied screed from rapid drying.

General information on the production of fast setting cement screeds

■ The mix must be adjusted to a stiff-plastic consistency! The screed does not reach the appropriate strength if the consistency is too soft and/or contains too much water. This might result in shrinkage cracks and bulges. The equilibrium moisture will not be reached until later. The strength and low residual moisture level important for laying subsequent coverings are dependent on the following factors:

1. Compaction of fresh mortar

Ready-mixed screed mortars insufficiently compacted have a low strength.

2. Temperature and humidity

Curing and drying times may considerably increase at low temperatures (processing and substrate) or high humidity (compared with the times at +20°C). The relative humidity should not exceed 70% during

the curing process. In principle, the residual moisture should be checked before laying **vapor-impermeable** floor coverings.

3. Layer thickness

The required screed thickness must be in accordance with DIN 18560.

Please note

- Do not apply a PCI Novoment Light screed 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 Light must be taken into consideration.
- Use only whole bags of PCI Novoment Light.
- PCI Novoment Light 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 Light within approx. 60 minutes (at approx. +23°C) after mixing. Higher temperatures reduce, lower temperatures increase the time given.
- Never add water or fresh PCI Novoment Light 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 dry weather 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 it 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 Light contains cement. Causes serious eye damage. Causes skin irritation. May cause respiratory irritation.

Keep out of reach of children. Wear protective gloves (e.g. cotton gloves soaked in nitrile) and eye/face protection. Avoid breathing dust. 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 inhaled: remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Take off

contaminated clothing and wash it before reuse.

The product is non-flammable. No special fire precautions are therefore required.

Water hazard class: 1 (self-ratng)

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

accordance 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).



PCI Augsburg GmbH
Piccardstr. 11 · 86159 Augsburg
Tel. +49 (8 21) 59 01-0
Fax +49 (8 21) 59 01-372
www.pci-augsburg.de



certified quality management system

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