

Multi-use flexible joint grout

**PCI Nanofug**<sup>®</sup>

especially for vitrified tiles  
and non-vitrified tiles



## Fields of application

- For indoor and outdoor use.
- For walls and floors.
- For grouting narrow joints in e.g. mosaic coverings and also wide joints in split clinker slabs.
- For non-vitrified tiles, vitrified tiles, split tiles, porcelain mosaic, glass mosaic, glass tiles, brick tiles and terracotta; also suitable for fully-vitrified tiles.
- In living areas, bathrooms, showers, on balconies, terraces, facades, in public and commercial areas subject to frequent wetness, e.g. shower facilities, saunas, toilets. In showrooms and presentation areas.
- On heated screeds, dry screeds, precast concrete elements, plasterboards, gypsum blocks, particle boards, wooden floorboards and areas subject to extreme variations in temperature.

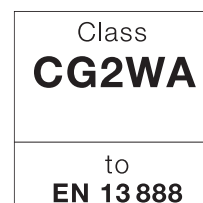


Good workability of PCI Nanofug independent from temperature.

## Features and benefits

- With unique binding agent combination and nanotechnology, for joints with a high optical demand.
- Surface repellent to water and dirt due to minimal absorption of water.
- EASY-TO-CLEAN EFFECT due to special additives.
- Good workability, creamy and workable consistency.
- Frost resistant, multi-use application indoors and out, on walls and floors.
- Flexible, compensates variations in temperature.
- Crack-free curing, the joint does not crack and break open.
- Low in chromates.
- Test certificate: building material class A2 (non-combustible building material to DIN 4102).

All test certificates are available under [www.pci-augsburg.de](http://www.pci-augsburg.de).



PCI Nanofug  
Baustoffklasse  
DIN 4102-A2  
nichtbrennbar

## Packaging size and colors

| Colors          | 15 kg bag<br>stock no. | 4 kg bag<br>stock no. |
|-----------------|------------------------|-----------------------|
| 02 Bahama beige | 3100/1                 | 3120/9                |
| 03 Caramel      |                        | 3131/5                |
| 05 Mid brown    |                        | 3132/2                |
| 11 Jasmine      | 3101/8                 | 3121/6                |
| 12 Anemone      |                        | 3122/3                |
| 16 Silver grey  | 3103/2                 | 3123/0                |
| 18 Manhattan    | 3110/0                 | 3135/3                |
| 19 Basalt       | 3104/9                 | 3124/7                |
| 20 White        | 3105/6                 | 3125/4                |
| 21 Grey         | 3106/3                 | 3126/1                |
| 23 Light grey   | 3107/0                 | 3127/8                |
| 31 Cement grey  | 3108/7                 | 3128/5                |
| 40 Black        |                        | 3129/2                |
| 41 Dark brown   |                        | 3118/6                |
| 43 Pergamon     | 3111/7                 | 3130/8                |
| 44 Topas        |                        | 3136/0                |
| 47 Anthracite   | 3112/4                 | 3137/7                |



20 White



23 Light grey



43 Pergamon



44 Topas



16 Silver grey



21 Grey



18 Manhattan



31 Cement grey



19 Basalt



47 Anthracite



40 Black



11 Jasmine



12 Anemone



02 Bahama beige



03 Caramel



05 Mid brown



41 Dark brown

Subject to deviations in color due to print.

## Technical data

### Material

|                |   |
|----------------|---|
| Material base  | Dry grout mix with elastifying polymers. No harmful silica dust during the application. |
| Components     | single component  |
| Consistency    | powder  |
| Storage        | min. 12 months; store in a dry place, no permanent storage over +30°C                   |
| Packaging size | 15 kg heavy duty paper bag<br>4 kg bag  |

### Application

|   |  |                            |
|---|--|----------------------------|
| Joint width   | 1 to 10 mm, from 10 mm to be blended with 25% of silica sand F32 (0.1 to 0.4 mm) |                            |
| Consumption   |  |                            |
| - tiles 30 x 30 cm<br>(at joint width 5 mm and depth 8 mm)          | approx. 400 g/m <sup>2</sup>   |                            |
| - tiles 20 x 20 cm<br>(at joint width 5 mm and depth 8 mm)          | approx. 600 g/m <sup>2</sup>   |                            |
| - medium mosaic 5 x 5 cm<br>(at joint width 2 mm and depth 6 mm)    | approx. 700 g/m <sup>2</sup>   |                            |
| - split tiles 24 x 11.5 cm<br>(at joint width 8 mm and depth 10 mm) | approx. 1500 g/m <sup>2</sup>  |                            |
| Coverage  | 15 kg bag<br>covers approx.  | 4 kg bag<br>covers approx. |
| - tiles 30 x 30 cm<br>(at joint width 5 mm and depth 8 mm)          | 37.5 m <sup>2</sup>  | 10.0 m <sup>2</sup>        |
| - tiles 20 x 20 cm<br>(at joint width 5 mm and depth 8 mm)          | 25.0 m <sup>2</sup>  | 6.6 m <sup>2</sup>         |
| - medium mosaic 5 x 5 cm<br>(at joint width 2 mm and depth 6 mm)    | 21.0 m <sup>2</sup>  | 5.6 m <sup>2</sup>         |
| - split tiles 24 x 11.5 cm<br>(at joint width 8 mm and depth 10 mm) | 10.0 m <sup>2</sup>  | 2.6 m <sup>2</sup>         |
| Gauging water for   |  |                            |
| - 1 kg powder   | approx. 0.20 l to 0.24 l   |                            |
| - 4 kg bag  | approx. 0.80 l to 0.96 l   |                            |
| - 15 kg bag   | approx. 3.0 l to 3.6 l   |                            |
| Working, material and substrate temperature                         | +5°C to +25°C  |                            |
| Slake time  | approx. 3 minutes  |                            |
| Working time*   | approx. 40 minutes   |                            |
| Curing times*   |  |                            |
| - walkable after  | approx. 6 hours  |                            |
| - able to bear weight after   | approx. 24 hours   |                            |
| Temperature resistance  | -20°C to +80°C   |                            |

\* At +23°C and 50% relative humidity. Higher temperatures reduce, lower temperatures increase the times given.

## Preparation of substrate

- Immediately after setting the tiles, rake joints clean to a uniform depth corresponding to the thickness of the tile. Allow adhesive to set.

## Application procedure

**1** Fill gauging water (see mixing table) in a clean mixing bucket. Add PCI Nanofug and mix to a creamy, lump-free consistency using a suitable paddle (e.g. from Collomix) attached to an electric drill.

**2** Leave to stand for approx. 3 minutes and re-mix.

**3** Work grout into the joints using a rubber grouting float and allow to set. Grout one more time if necessary to achieve a flush joint. After the grout has

set (finger test), clean tiles with a slightly damp sponge or sponge float.

**4** When the grout is dry, remove the remaining film on the tiles with a damp sponge.



Multi-use application for every joint width and all ceramic tiles.

## Please note

- Do not apply at temperatures below +5°C and above +25°C or in hot weather, wet conditions and draught.
- Higher temperatures reduce, lower temperatures increase the working time. Cover newly grouted areas outdoors with a foil to protect the surface from direct sunlight and strong draught. Keep joints damp for the optimum hydration of the grout - especially in case of non-absorbent tiles and substrates.
- Use PCI Nanofug Premium for fully-vitrified tiles especially at low temperatures.
- A white film on the ceramic tiles which might remain visible after hardening can be removed after 2 to 3 days with a cement stain remover. Prewet joints and tiles thoroughly and wash with lots of water after cleaning.
- PCI Nanofug is no replacement for proper waterproofing measures in line with applicable standards.
- We recommend - for reasons of resistance - to grout with PCI Durapox Premium in areas subject to frequent cleaning by high pressure cleaners or cleaning agents containing acid, or in areas exposed to water containing free, cement aggressive carbon dioxide.
- The grout film on non-slip tiles or floor coverings with a rough surface must be thoroughly removed while still fresh (test grouting and/or cleaning beforehand).
- In case of polished fully-vitrified tiles, color pigments can solidify in the micropores which might be found in the surface of the tiles. We therefore advise against an intense color contrast between tile and joint. Grout a small area first if you are uncertain.
- We recommend to use a non-woven cloth for washing sharp-edged tiles.
- The hardened joint grout might get damaged when being exposed to acidic, cement-attacking cleaning agents. In this case prewet joints and tiles thoroughly and wash off with lots of water after cleaning.
- It might require a higher effort to remove the grout film off the tiles when using the color black.
- Prevent PCI Nanofug from overflowing into perimeter joints and adjoining areas by taking appropriate measures such as placing temporary barrier strips before grouting. Remove

## Please note

- strips before applying the elastic sealant. Seal joints between tiles, fitted elements and pipe culverts as well as corner joints and connection joints with the elastic sealant PCI Silcofug E or PCI Silcoferm S, use PCI Elritan 100 for facades.
- We recommend to use the same batch number for the same project.
  - The original color may change when mixing PCI Nanofug with silica sand.
  - Never add water or wet grout and/or powder to reconstitute a grout mix which has already begun to set.
  - Do not use a dry cloth for cleaning as staining might be caused when rubbing hardened grout into the damp joint.
  - Use PCI Durafug NT for grouting in potable water tanks.
  - Shelf life: min. 12 months; store in a dry place, no permanent storage over +30°C.
  - Suitable tools are available from e.g. Collomix GmbH, Horchstraße 2, 85080 Gaimersheim/Germany, [www.collomix.de](http://www.collomix.de).
  - Clean tools with water immediately after use; the cured product can only be removed by mechanical scraping.

## Nano technology

For years we have been intensively engaged in the research of Nano structures in cementitious products and we have a variety of analytical possibilities and methods. By examining

the crystal structures of cement hardening from the very first minute the formation of Nano structures within the cement matrix can be observed and effected. The combination of various

kinds of cement and the specific formulation, e.g. with high-quality polymers, light fillers and additives leads to improved and new characteristics of the product.

## Information on the safe use

PCI Nanofug 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-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

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](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

**PCI Nanofug®**,  
Last revised in January 2022  
(German edition November 2021)  
This version will become invalid immediately upon  
the publication of a later version;  
you will always find the latest version on the  
Internet at [www.pci-augsburg.de](http://www.pci-augsburg.de).