

Universal flexible joint grout

PCI Nanofug®

for every joint width and
all ceramic tiles

PCI®
Für Bau-Profis



Fields of application

- For indoor and outdoor use.
- For walls and floors.
- From grouting narrow joints such as in mosaic coverings to grouting wide joints in split tiles.
- For non vitrified tiles, vitrified tiles, split tiles, porcelaine mosaic, glass mosaic, glass tiles, brick tiles and terracotta; also suitable for fully vitrified tiles.
- In residential areas, bathrooms, showers, on balconies, terraces, facades, in public and commercial areas subject to frequent wetness, e.g. shower facilities, saunas, toilets. In sales rooms and presentation areas.
- On heated screeds, dry screeds, precast concrete elements, gypsum plaster boards, gypsum planks, wooden chipboards, timber floors and areas subject to extreme variations in temperature.

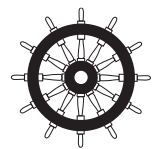


Good workability of PCI Nanofug independent from temperature.

Features and benefits

- **With unique binding agent combination incorporating the Nano technology**, 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.
- **The curing process is independent from temperature**, the best time for washing is nearly the same at low as well as high temperatures.
- **Good workability**, the grout is plastic and workable.
- **Resistant to frost**, multi-purpose application indoors and out, on walls and floors.
- **Flexible**, compensates variations in temperature.
- **Crack-free hardening**, the joint does not crack and break open.
- **Low in chromates.**
- **Test certificates**
- building material class A2

EASY-TO-CLEAN
EFFECT



0801-11 / 0098-11



A brand of

BASF

The Chemical Company

Features and benefits

(non combustible building material
acc. to DIN 4102)
- CG2 WA
(improved cementitious joint grout

with additional characteristics),
acc. to DIN EN 13 888:2009.
- DVGW worksheet W270
All test certificates are available under

www.pci-augsburg.de.

Accessories

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



02 Bahamabeige



18 Manhattan



40 Black



03 Caramel



19 Basalt



41 Dark Brown



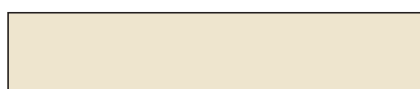
05 Midbrown



20 White



43 Pergamon



11 Jasmin



21 Grey



44 Topas



12 Anemone



23 Light Grey



47 Anthracite



16 Silver Grey



31 Cement Grey

Subject to deviations in colour due to printing.

Technical data

Material

Material base	Dry grout mix with elastifying polymers. No injurious silica dust during the application.
Components	1 part
Consistency	powder
Labelling to	
- Carriage of Dangerous Goods by Road, Rail and Inland Waterways	non hazardous
- Regulation for hazardous substances	irritant, contains cement
<i>For further information see Health and Safety.</i>	
Storage	min. 12 months when stored in dry conditions, no permanent storage over + 30 °C
Packaging size	15 kg heavy duty paper bag 4 kg bag

Application

Joint width	1 to 10 mm, from 10 mm upwards blend with 25 % of silica sand F 32 (0.1 to 0.4mm)	
Consumption		
- tiles 30 x 30 cm (at joint width 5 mm and depth 8 mm)	approx. 400 g/m ²	
- tiles 20 x 20 cm (at joint width 5 mm and depth 8 mm)	approx. 600 g/m ²	
- medium mosaic 5 x 5 cm (at joint width 2 mm and depth 6 mm)	approx. 700 g/m ²	
- split tiles 24 x 11.5 cm (at joint width 8 mm and depth 10 mm)	approx. 1500 g/m ²	
Coverage	15 kg bag cover approx.	4 kg bag cover approx.
- tiles 30 x 30 cm (at joint width 5 mm and depth 8 mm)	37.5 m ²	10.0 m ²
- tiles 20 x 20 cm (at joint width 5 mm and depth 8 mm)	25.0 m ²	6.6 m ²
- medium mosaic 5 x 5 cm (at joint width 2 mm and depth 6 mm)	21.0 m ²	5.6 m ²
- split tiles 24 x 11.5 cm (at joint width 8 mm and depth 10 mm)	10.0 m ²	2.6 m ²
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 (substrate temperature)	
Slake time	approx. 3 minutes	
Working time*	approx. 40 minutes	
Curing times*		
- rainproof after	approx. 4 hours	
- walkable after	approx. 4 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 container. Add PCI Nanofug and immediately mix with a suitable paddle (e.g. available from Collomix) attached to an electric drill until mix is plastic and free of lumps.

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

3 Work grout into the joints with a rubber float (PCI Gummifugscheibe) and allow grout to set. If necessary grout one more time to achieve a flush joint.

After the grout has set (finger test) clean tiles with a slightly damp sponge or sponge board.

4 When the grout is dry remove the remaining grout film with a damp sponge.



Universal application – for every joint width and all ceramic tiles.

Please note

- Do not apply at temperatures below + 5 °C and above + 25 °C or under exposure to direct heat, wetness and draught.
- Higher temperatures reduce, lower temperatures increase the working time. Cover newly grouted areas outdoors with a foil as protection from direct sunlight and strong draught. Keep joints damp for optimum hydration of the grout - especially in case of non-absorbent tiles and substrates.
- Use PCI Rapidfug for fully vitrified tiles especially at low temperatures.
- Should a white film remain on the ceramic tiles after hardening it can be removed after 2 to 3 days with the cement stain remover PCI Zementschleier-Entferner alkalisch. Prewet joints and tiles thoroughly and wash with lots of water after cleaning. See technical data sheet no. 820 for the application of PCI Zementschleier-Entferner alkalisch.
- PCI Nanofug is no replacement for proper waterproofing measures in line with applicable standards.
- For resistance reasons we recommend to grout with PCI Durapox NT plus or PCI Durapox NT 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.
- When grouting non-slip tiles or floor coverings with a rough surface as well as fully vitrified tiles the remaining haze must be thoroughly removed while still fresh (carry out trial grouting and/or trial cleaning).
- In case of polished fully vitrified tiles colour pigments might solidify in the micropores which are possibly found in the surface of the tile. Therefore we advise against an intense colour contrast between tile and joint. In case of doubt carry out trial grouting.
- When grouting sharp-edged tiles we recommend to wash the tiles with a fleece material.
- When using acid cleaning agents prewet joints and tiles thoroughly and wash with lots of water after cleaning.
- When using the colour black cleaning might require a higher effort.
- Before grouting take appropriate measures, such as using temporary barrier strips, to prevent PCI Nanofug from overflowing into perimeter joints and adjoining areas. Remove strips before applying the elastic sealant. Seal joints between tiles, fitted elements and pipe culverts as well as corner and connection joints with the elastic sealants PCI Silcofug E or PCI Silcoferm S, at facades with PCI Elritan 100.
- It is recommended to use the same batch number for the same project.
- The original colour can 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 otherwise discolourings might be caused by rubbing dried grout into the damp joint.
- Grouting in swimming pools should be carried out with PCI Durafug NT or PCI Durapox NT/NT plus.
- Grouting in potable water tanks must be carried out with PCI Durapox NT or PCI Durapox KTW.
- Shelf life: min. 12 months when stored in dry conditions, no permanent storage over + 30 °C.
- Suitable tools are available from e.g. Collomix GmbH, Horchstraße 2, 85080 Gaimersheim/Germany, www.collomix.de.
- Clean tools with water immediately after use; once the product is hard it can only be removed by mechanical means.

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.

PCI Augsburg GmbH does not use Nano particles in any of its products.

Health and Safety

PCI Nanofug 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). Irritating to respiratory system. Risk of serious damage to eyes, therefore avoid contact with eyes and prolonged

contact with skin. Do not breathe dust. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. Wear suitable gloves (e.g. cotton

gloves soaked in nitrile) and eye/face protection. If swallowed, seek medical advice immediately and show packaging or this technical data sheet. Keep out of reach of children. Low in chromates.

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



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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. Liability is accepted for incomplete or incorrect particulars in our data sheets only in the event of intent or gross negligence, without prejudice to claims under product liability laws. All transactions are subject to our Terms of Sale and Supply.

Technical Data Sheet No. 246, Any subsequent publication supersedes this edition.
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