

PCI NANOFUG

Universal flexible joint grout for all joint widths and all ceramic tiles

EASY TO
CLEAN EFFECT

Fields of application

For indoor and outdoor use.

- For walls and floors.
- **For all joint widths:** from grouting of narrow joints such as in mosaic coverings to grouting of wide joints in split tiles.
- **For all ceramic coverings:** non vitrified tiles, vitrified tiles, split tiles, fully vitrified tiles, porcelain mosaic, glass mosaic, glass tiles, brick tiles and terracotta.
- 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.



PCI Nanofug produces good workability 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,** washing is nearly the same at low as well as high temperatures.
- **Produces 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 according to TRGS 613.**
- **Test certificates**
 - building material class A2 (non combustible building material acc. to DIN 4102)
 - CG2 (improved cementitious joint grout with additional characteristics), acc. to DIN EN 13 888
 - DVGW worksheet W270

Packaging

15 kg heavy duty paper bag and 4 kg bag.

Colours	item no./EAN check digit 15 kg bag	item no./EAN check digit 4 kg bag
No. 02 Bahama beige	3100/1	3120/9
No. 03 Caramel		3131/5
No. 05 Midbrown		3132/2
No. 11 Jasmin	3101/8	3121/6
No. 12 Anemone	3102/5	3122/3
No. 13 Crocus		3133/9

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Colours	item no./EAN check digit 15 kg bag	item no./EAN check digit 4 kg bag
No. 16 Silver grey	3103/2	3123/0
No. 17 Stella		3134/6
No. 18 Manhattan		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. 43 Pergamon		3130/8
No. 44 Topas		3136/0
No. 47 Anthracite		3137/7
No. 48 Mint		3138/4

Technical data material

Material base	Dry grout mix with elastifying polymers. No injurious silica dust during the application.
Components	1 part
Consistency	Powder

Labelling for

- Regulation for hazardous goods on roads	Non hazardous
- Regulation for hazardous substances	Irritant, contains cement

For further information refer to Health and Safety.

Storage

Min.12 months when stored in dry conditions, no permanent storage over +30°C

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 20 x 20 cm approx. (at joint width 3 mm and depth 6 mm)	approx. 230 g/m ²	
- tiles 20 x 30 cm (at joint width 3 mm and depth 6 mm)	approx. 300 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	
Yield		
	15 kg bag sufficient for approx.	4 kg bag sufficient for approx.
- tiles 20 x 30 cm (at joint width 3 mm and depth 6 mm)	65 m ²	17.4 m ²
- tiles 20 x 20 cm (at joint width 3 mm and depth 6 mm)	50 m ²	13.3 m ²
- medium mosaic 5 x 5 cm (at joint width 2 mm and depth 6 mm)	21 m ²	5.6 m ²
- split tiles 24 x 11.5 cm (at joint width 8 mm and depth 10 mm)	10 m ²	2.6 m ²
Gauging water for		
- 1 kg powder	approx. 0.25 ltr	
- 4 kg bag	approx. 1.0 ltr	
- 15 kg bag	approx. 3.75 ltr	

Technical data

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
Temperature resistance	-20°C to +80°C

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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

- 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.
- Leave to stand for approx. 3 minutes and re-mix.
- 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.
- When the grout is dry remove the remaining grout film with a damp sponge.



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

Note

- Do not apply at temperatures below +5°C and above +25°C or under exposure to direct heat, moisture or drying winds.
- Higher temperatures reduce, lower temperatures increase the working time. Cover newly grouted areas outdoors with a from direct sunlight and strong draught. Keep the joints damp for optimum hydration of the grout – especially in case of non-absorbent tiles and substrates.
- Should a white film remain on the ceramic tiles after hardening it can be removed after 2 to 3 days with a cement stain remover. Pre-wet joints and tiles thoroughly and wash with lots of water after cleaning.
- PCI Nanofug is not a 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.

Note

- 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.

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- 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.
- 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, PCI Durapox NT/NT plus or PCI Schwimmbadfuge.
- 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 means of structural examinations from the very first minute of cement curing 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). Risk of serious damage to eyes, therefore avoid contact with eyes and prolonged contact with skin. In case of contact with eyes immediately rinse with plenty of water and consult a doctor. In case of contact with skin change contaminated clothing immediately and wash skin with plenty of soap and water. Wear suitable protective gloves (e.g. cotton gloves soaked in nitrile). If ingested seek prompt medical attention and show packaging or this data sheet. Keep out of reach of children. Low in chromates according to TRGS 613.

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

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