



The Chemical Company

## Cementitious Special Grout

# Durafug NT

For commercially used areas  
and swimming pools

**PCI Durafug NT is audited in accordance with  
DIN EN 13888 and complies with the Euro Norm CG2**

### FIELDS OF APPLICATION

- For indoor and outdoor use.
- For walls and floors.
- For joint widths from 3 to 20 mm.
- For grouting coverings of fully vitrified tiles, vitrified tiles and floor clinker slabs exposed to increased mechanical stress and load by cleaning chemicals in industrial and commercially used areas
- For grouting of tile coverings in workshops, swimming pools, canteen kitchens, cold storage depots, washing facilities, storage, sales and exhibition rooms.

### FEATURES AND BENEFITS

- High resistance against mechanical stress by Nanofill technology.
- High-density texture of grout guarantees minimal depth of penetration of pollution and high mechanical load.

- All purpose use of neutral and alkaline cleaning agents
- Increased resistance to acid cleaners compared to usual cementitious grouts.
- Resistant to load by high-pressure water jet cleaning up to +150°C and 100 bar.
- With official test certificate for the drinking water field according to the DVWG worksheet W347 (Hygiene Institute Gelsenkirchen/Germany).
- Crack-free curing, the joint does not crack or crumble.
- Watertight and frost resistant, multi-purpose use indoors and out.
- 1 part, therefore easy application just like any usual cementitious grout.

TECHNICAL DATA

Material

Material basis	Modified cementitious grout. Does not contain any asbestos or other mineral fibres. No injurious silica dust during the application.
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Components	1 part
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Identification according to - Regulation for Hazardous Goods/Road - Regulation for Hazardous Material <i>For further information refer to paragraph Safety.</i>	non hazardous irritating, contains cement
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Shelf life	approx. 12 months
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Storage	cool and dry
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Colour	cement grey no. 31
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Packaging	25 kg. Bag
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Application

Consumption/Yield of PCI-Durafug NT:

Type of tile	Consumption/m <sup>2</sup>	25kg PCI-Durafug NT Is sufficient for approx.
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e.g. split tile 24 x 11.5 cm, joint width 8mm, depth 8mm	1.5 kg	16.5 m <sup>2</sup>
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e.g. fully vitrified tile 20 x 20 cm joint width 5 mm, 8 mm depth	0.8 kg	31 m <sup>2</sup>
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Joint width	3 to 20 mm
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Working temperature	+5°C to +25°C (Substrate temperature)
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Gauging water - with floor joints 1 kg powder - 25 kg bag approx. - with wall joints	approx. 160 - 180 ml 4 - 4.5 ltr Reduce amount of water to required mortar consistency
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Slake time	approx. 3 minutes
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Working time*	approx. 60 minutes
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Curing time* - walkable after - exposure to water after	approx. 6 hours approx. 24 hours
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Mechanical stress after	approx. 7 days
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Temperature resistance	-20°C to +250°C
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- *At +23°C and 50% relative humidity. Higher temperatures reduce, and lower temperatures increase these times.*

RESISTANCE TO CHEMICALS

	Concentration (wt. %)		Concentration (wt. %)
<b>Organic acids</b>		<b>Solvents</b>	
Formic acid	(+)	Acetone	+
Acetic acid (+) Butyl alcohol +			
Lactic acid	-	Ethanol	+
Oxalic acid	+	Isopropanol	+
Tartaric acid	+	Petroleum ether	+
Citric acid	(+)	Formaldehyde	+
		Xylene	+
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<b>Alkalis</b>			
Ammonia	+	Others	
Calcium hydrate solution	+	Petrol	+
Chlorine bleaching	+	Developer	+
Caustic potash solution	+	Glycerine	+
Caustic soda solution	+	Whey	(+)
		Hydrogen peroxide	+
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<b>Oils</b>			
Fuel oil	+		
Paraffin oil	+		
Hydraulic oil	+		
Silicone oil	+		
Salad oil	+		
Turpentine oil	+		

**Legend:**

+ = resistant, (+) = limited resistance, - = non resistant

**SUBSTRATE  
PREPARATION**

Rake out joints down to the required tile thickness and clean immediately after laying the tiles. Allow bedding mortar to harden.

**APPLICATION**

- Place gauging water (see table "Technical Data/Application") in a clean mixing vessel. Add powder and mix with a suitable stirrer or mixer mounted on an electric drill until the mortar is of a plastic, lumpfree consistency.
- Restir after a slake time of approx. 3 minutes.

**3. Floor grouting**

Work the grout flush into the joints with PCI rubber squeegee. Scrape off surface diagonally across the tiles and regrout, if necessary. Rub off with a slightly damp sponge after the mortar has set (finger test).

**Wall grouting**

Work the grout into the joints with a PCI rubber squeegee, allow to set and regrout a second time if necessary. Rub off with a slightly damp sponge after the mortar has sufficiently set (finger test).

- After hardening remove the haze of mortar with a damp sponge.

PLEASE NOTE

- Do not apply at temperatures below +5°C and above +25°C and under exposure to rain and draught.
- Higher temperatures reduce, lower temperatures increase the working time. Freshly grouted coverings outdoors and non-absorbent tiles are to be covered with foil and kept moist.
- Block off perimeter and expansion joints before grouting by inserting polystyrene profiles. Remove protective profiles before the application of elastic sealant.
- In case of unglazed tiles and slabs it is possible that a haze of mortar remains on the tiles after grouting. Follow the manufacturer's recommendations. If acid-washing is required, the joints are to be sufficiently pre-wet.
- Apply the elastic sealant PCI Silicoferm VE or Silicoferm S TO perimeters, fixtures, pipe culverts as and connection joints.
- Never dilute stiffened grout with water or mix with fresh grout and/or powder.
- Use a damp sponge and not a dry cloth for cleaning as there is a risk of discolouration by rubbing dried grout into the joint while still moist.
- The strength and/or resistance of the joint is reduced by overdosing the amount of gauging water.
- Clean tools with water immediately after use; once the product has hardened it can only be removed by mechanical means.
- If the joint is frequently exposed to acids apply PCI-Epoxy Grout and/or contact the PCI Technical Advisory Service.

SAFETY

PCI-Durafug NT contains cement. Contact with moisture of gauging water sets off an alkiline reaction which may cause skin irritation and/or caustic burns to mucous membranes (e.g. eyes). Risk of severe eye injuries, therefore avoid contact with eyes and prolonged skin contact. In case of eye contact immediately rinse with plenty of water and consult a doctor. In case of skin contact remove contaminated clothing immediately and wash skin with plenty of soap and water immediately. Wear appropriate protective gloves. Keep out of children's reach. Low in chromates according to TRGS 613.

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

BASF Construction Chemicals (UK) Ltd

Albany House, Swinton Hall Road,  
Swinton, Manchester,  
M27 4DT, England.  
Tel: + 44 (0) 161 794 7411  
Fax: + 44 (0) 161 727 8547  
E-mail: pci.uk@basf.com  
Website: pci.uk.com

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