

PCI CARRAFLOTT® NT (high temperature version)

Back sealer, thin-bed, medium bed and flowable adhesive especially for critical natural stone tiles

Areas of application

- For indoor and outdoor use.
- For floors.
- For practically cavity free laying of calibrated natural stone tiles with a flowable adhesive, in particular with profiled tiles and uneven substrates.
- In living areas, on underfloor heating systems, heated screeds, balconies and terraces, in halls, rooms and corridors of industrial buildings, markets, service and administration buildings.
- Especially suitable for natural stone and artificial stone which are sensitive to discolouring and tend to deform, such as Padang, Kashmir White, slate, Serpentine and Agglo marble.



Features and benefits

- Deformation and discolouring in sensitive natural stone is prevented by a special formulation.
- The flowable adhesive replaces the combined method (buttering-floating), therefore time saving because no back-buttering of the tiles required.
- Adjustable, can be applied as flowable adhesive, medium bed adhesive as well as thin bed adhesive by varying the amount of gauging water.
- Flexible, compensates fluctuations of temperature and tensions in the substrate.
- Rapid setting, prevents moisture from penetrating into the material during the application.
- The formation of efflorescence is prevented by the use of special binders.
- Rapid curing, walkable and groutable after approx. 6 hours, able to bear weight after approx. 1 day.
- Waterproof and frost-resistant, can be used indoors and out.
- No staining from the adhesive bed even with very light-coloured natural stone.
- If used as a back sealer for natural stones PCI CarrafloTT NT can be applied in conjunction with Mastertile 30 & Mastertile 200 or Mastertile 20.
- Corresponds to C2F in accordance with DIN EN 12004.

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Technical data

Material

Material base	cement mortar mix with additives. Does not contain any asbestos or other mineral fibres. No injurious silica dust during the application.
Components	1 part
Colour	White
Packaging	25 kg PE lined heavy duty paper bag
Shelf life	min. 6 months when stored in dry conditions.
Storage	no permanent storage over +40°C.

Application

Consumption and coverage*	as thin bed, medium bed and flowable adhesive	for application as mortar bonding agent	for application as natural stone back sealer
Required notch size	consumption per m ² / 25 kg sufficient for approx.	consumption per m ²	consumption per m ²
Rectangular			approx. 0.6 -1 kg
3mm or brush			
6 mm	2.2 kg / 11.4 m ²	approx. 2.2 kg	
8 mm	3.0 kg / 8.3 m ²		
10 mm	3.6 kg / 6.9 m ²		
Arch			
6/12 mm	2.8 kg / 8.9 m ²		
8/18 mm	4.2 kg / 6.0 m ²		
13/20 mm	5.7 kg / 4.4 m ²		
Mixing ratio	depending on desired mortar consistency:		
-25 kg bag	5.0 to 6.0 litre of water	6.0 litre of water	6.0 litre of water
-1 kg bag	200 to 240 ml of water	240 ml of water	240 ml of water
Adhesive bed thickness	3 to 20 mm	min. 2 mm	min 0.5 mm
Slake time	approx. 3 minutes	approx. 3 minutes	approx. 3 minutes
Working temperature (substrate temperature)	+5°C to +40°C	+5°C to +40°C	+5°C to +40°C
Working time**	approx. 45 minutes	approx. 45 minutes	approx. 45 minutes
Curing times**		walkability of installed surface**	
- walkable after	approx. 6 hours	- with conventional cement	
- groutable after	approx. 6 hours	screed after approx. 24 hours	
- able to bear weight after	approx. 24 hours	- with PCI Novoment screeds	
		after approx. 4 hours	
Temperature resistance	-30°C to +80°C		

* Besides the type of natural stone the surface roughness of the substrate and the exact dimensions of the natural stone are essential, for the consumption of mortar. The indications are based on tiling of calibrated natural stone on cement screed.

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

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Preparation of substrate

Application as Thinbed, Medium Bed and Flowable Adhesive

Minimum age of substrate:

- cement screed: 28 days
- concrete: 3 months

The substrate must be dry, free of oil and dust and able to bear weight. Prime very absorbent cementitious substrates with PCI Primer Gisogrund diluted 1:1 with water. Prime ground anhydrite and/or gypsum-based pourable screeds and poured asphalt screeds indoors with undiluted PCI Primer Gisogrund. Allow the primer to dry. Cementitious screeds must not display a residual moisture content of more than 4%, anhydrite screeds not more than 0.5%.

Application as Mortar Bonding Agent

The cement screed as substrate must be damp, level and compacted. The covering is laid in the "fresh" screed and/or in the mortar bed. Bond-inhibiting residues on the reverse of the natural stone tile must be completely removed.

Application procedure

Flowable Adhesive and Thin Bed, Medium Bed

- Place gauging water (see Technical Data/Application) in a clean mixing container. Add PCI Carraflott NT and mix with a suitable paddle (e.g. from Collomix) attached to an electric drill to achieve a plastic, lump free mortar.
- Leave to stand for approx. 3 minutes and re-mix briefly.
- Laying natural stone.

Flowable adhesive

Pour PCI Carraflott NT onto the substrate section by section and apply a scratch coat. Using a medium trowel or other suitable notched trowel – enabling a full bedding – spread as much mortar as can be covered with natural stones within the open time. Check the open time with your fingertip. Place tiles with a twist and slide motion to achieve a full bedding.

Thin bed adhesive / Medium bed adhesive.

Apply a thin scratch coat to the substrate with the straight edge of the trowel. Then comb the mortar onto the fresh scratch coat with the notched trowel. Apply only as much mortar as can be covered with tiles within the open time. Check the open time with your fingertip. To prevent staining from the adhesive bed void-free laying of natural stones in the combined method (buttering-floating) is necessary, i.e. backbuttering the tiles with PCI Carraflott NT. Place tiles in the adhesive bed with a twist and slide motion and adjust to correct position

Mortar Bonding Agent

- Place gauging water (see Technical Data/Application) in a clean mixing container. Add PCI Carraflott NT and mix with a suitable paddle (e.g. from Collomix) attached to an electric drill to achieve a plastic, lump free mortar.
- Leave to stand for approx. 3 minutes and re-mix briefly.

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- Backbutter the natural stone tiles with PCI Carraflott NT using a 6 mm notched trowel and smooth (minimum layer thickness approx. 2 mm; make sure that the tile is completely covered with adhesive!) and immediately lay into the prepared cement screed.
- As an alternative when the natural stone tiles have a uniform thickness PCI Carraflott NT can be applied directly to the damp, fresh cement screed using a 6 mm notched trowel. The tiles are then immediately patted into the fresh bonding agent.
- Backbutter the natural stone tiles with PCI Carraflott NT using a 3 mm notched trowel and smooth (minimum layer thickness approx. 0.5 mm; make sure that the tile is completely covered with adhesive!)
- As an alternative PCI Carraflott NT can also be applied with a brush directly to the back of the natural stone (minimum layer thickness approx. 0.5 mm; make sure that the tile is completely covered with adhesive!)
- The back buttered natural stone can either immediately be laid into the prepared cementitious adhesive (like Mastertile 30 & Mastertile 200/Mastertile 20) or dried first and laid later into the adhesive bed.

Back sealer

- Place gauging water (see Technical Data/Application) in a clean mixing container. Add PCI Carraflott NT and mix with a suitable paddle (e.g. from Collomix) attached to an electric drill to achieve a plastic, lump free mortar.
- Leave to stand for approx. 3 minutes and re-mix briefly.

Grouting

from 1 to 8 mm joint width PCI Carragrout

Elastic joints

Seal corner joints (floor/wall) and connection joints (fixtures/tile covering, wood/tile covering) with the elastic joint sealant PCI Carraferm.

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Please note

- Do not use PCI CarrafloTT NT at substrate temperatures below +5°C and above +40°C or under exposure to extreme heat or strong wind.
- The open time is reduced with absorbent substrates (recommendation: prime with PCI Primer Gisogrund diluted 1:1 with water).
- Use the levelling and medium bed mortar PCI Carrament to lay non-calibrated natural stones (in different lengths) or for adhesive bed thicknesses from 5 to 40 mm.
- When laying natural stones on substrates which set through hydration and which have not yet reached the specified minimum age and/or the specified residual moisture level please contact the BASF Technical Service.
- When laying natural stone such as Verde Alpi, greywacke, Brazilian slate, cut porphyry tiles and in case of natural stone coated on the reverse side please contact the BASF Technical Service.
- Never add water or dry powder to reconstitute a PCI CarrafloTT NT mix which has already begun to set. Apply PCI CarrafloTT NT within approx. 45 minutes (at +20°C) after mixing.
- The adhesive bed must be thick enough and the mixing ratio must be followed to achieve a void-free laying of the tiles. The size of the notched trowel is dependent on the tile format and the irregularities in the substrate (trial tiling is recommended).
- When grouting natural stone the technical data sheets for the respective joint grouts and/or sealants must be followed.
- Clean tools and mixing containers with water immediately after use, once the product has cured it can only be removed by mechanical means.

Health and safety

PCI CarrafloTT NT 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 water and seek prompt medical attention. 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) and safety goggles/face protection. Keep out of reach of children. If ingested seek prompt medical attention and show packaging or this product data sheet. Low in chromates.

For further information refer to the Material Safety Data Sheet.

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