

# PCI CARRAMENT **(high temperature version)**

## Medium-bed mortar (white or grey) for natural stone coverings

### Areas of application

- For indoor and outdoor use.
- For walls and floors.
- To lay natural stone tiles.
- To level uneven substrates prior to laying tiles.
- On stairs of villas, hotels, in living areas, on heated screeds, balconies and terraces, in halls, rooms and corridors of industrial buildings, retail outlets, markets, institutional, service and administration buildings and airports.



### Features and benefits

- Plastic, workable bedding mortar, the medium-bed mortar is spread with only a notched trowel (medium-bed trowel).
- Flexible, compensates fluctuations in temperature and expansions in the substrate.
- Good adhesion without pre-wetting or priming on concrete, sand-cement screed and render.
- Low shrinkage, no tensions caused by shrinkage between PCI Carrament and the natural stone tile even with large mortar bed thicknesses (up to 4 cm).
- Resistant to frost and permanent exposure to wetness, multi-purpose use indoors and out, on walls and floors.
- Quick setting, reduces penetration of moisture into the material during the installation thus preventing efflorescence.
- Rapid curing, walkable and groutable after approx. 6 hours, able to bear weight after approx. 1 day.
- No staining from the adhesive bed with white marble if the installation is carried out in the buttering-floating method.
- 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 asbestos or other mineral fibres. No injurious silica dust during the application.
Component	1 part
Colour	white and grey
Shelf life	approx. 6 months when stored in dry conditions
Packaging	25 kg PE-lined heavy duty paper bag
Storage	cool and protected from frost, no permanent storage over +40°C.

### Application

Consumption and coverage	approx. 1.3 kg of dry mortar per m <sup>2</sup> and mm adhesive bed thickness
Required notch size	consumption per m <sup>2</sup> approx      25 kg sufficient for approx.
- 10 mm (rectangular)	3.6 kg                                      6.9 m <sup>2</sup>
- 8/18 mm (flowable adhesive)	4.2 kg                                      6.0 m <sup>2</sup>
- 13/20 mm (flowable adhesive)	5.7 kg                                      4.4 m <sup>2</sup>
Gauging water for	
- 1 kg powder	approx. 210 ml
- 25 kg bag	approx. 5.25 litres
Thickness of adhesive bed	5 to 40 mm
Working temperature	+5°C to +40°C (substrate temperature)
Slake time	approx. 3 minutes
Open time*	approx. 25 minutes
Working time*	approx. 30 minutes
Curing times*	
- walkable after	approx. 6 hours
- groutable 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.

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## Preparation of substrate

Minimum age of the substrate:

- Cementitious 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 floated screeds and poured asphalt screeds indoors with undiluted PCI Primer Gisogrund. Allow primer to dry. Cementitious screeds must not have a residual moisture content of more than 4%, anhydrite screeds not more than 0.5% (measured with a CM meter).

## Application procedure

- Fill gauging water (see “Technical Data/Application”) into a clean mixing container. Add PCI Carrament and mix with a suitable paddle (e.g. available from Collomix) attached to an electric drill until a plastic, lumpfree mortar is achieved.
- Allow a slake time of approx. 3 minutes and re-mix briefly.

## Installation of natural stone tiles

- *Medium-bed method*

Apply PCI Carrament onto the substrate section by section to achieve a scratch coat. Spread as much mortar as can be covered with natural stones within the open time using a medium-bed trowel or any other suitable notched trowel which enables almost full bedding. Check the open time with your fingertip. Position tiles with a slightly twist and slide motion to obtain an almost full bedding.

- *Bedding method*

PCI Carrament can also be used to lay large-size natural stones in vertical position (e.g. stair risers, natural stone dados). Apply PCI Carrament to the required thickness with a medium-bed or flat trowel both to the substrate and the reverse side of the tile. Press down and align the natural stone tile and wedge if necessary. Apply only as much mortar as can be covered with tiles within the open time. Check the open time with your fingertip. The application of PCI Carrament to the reverse side of the tile prevents staining from the adhesive bed and enables an almost void free laying.

## Grouting

- *Joint width from 1 to 8 mm*

PCI Carragrout

- *Elastic joints*

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



PCI Carrament is a workable medium-bed mortar easy to apply.

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For void-free laying always apply a layer of mortar to the reverse side of the tile.

## Note

- Do not apply PCI Carrament at substrate temperatures below +5°C and above +40°C or under exposure to extreme heat and strong winds.
  - The open time reduces with absorbent substrates (recommendation: priming with PCI Primer Gisoground, diluted 1:1 with water).
  - In case of high layer thicknesses the amount of gauging water for PCI Carrament can be reduced, however, resulting in decreasing the open time.
  - When installing window sills in the dot and dab method it is necessary to apply a fully-covering scratch coat with PCI Carrament to the reverse side of the natural stone tile.
  - 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 BASF Technical Service.
- When laying natural stones which show an extreme concave arching when absorbing water (e.g. slate) please contact BASF Technical Service.
  - Never add water or dry powder to a PCI Carrament mix which has already begun to set. Apply PCI Carrament within approx. 60 minutes (at +40°C) after mixing.
  - For a void-free bedding of the tiles it is required that the adhesive and that the appropriate mixing ratio is observed. The size of the notched trowel depends on the tile format and the irregularities of the substrate (trial bedding).
  - The technical data sheets for the respective grouts and/or sealants should be followed when grouting natural stones.
  - Clean tools and mixing containers with water immediately after use; once the product has cured it can only be removed by mechanical means.



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## Health and safety

PCI Carrament 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 consult a doctor. In case of contact with skin immediately change contaminated clothing 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 technical data sheet. Keep out of reach of children.

Low in chromates according to TRGS 613.

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

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**As all BASF technical datasheets are updated on a regular basis it is the user's responsibility to obtain the most recent issue.**

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