

# PCI CARRAMENT

**Medium-bed mortar for natural stone coverings****Medium-bed mortar PCI Carrament white****Medium-bed mortar PCI Carrament grey****Fields of application**

- For indoor and outdoor use.
- For walls and floors.
- To lay natural stone flags.
- To level uneven substrates prior to laying tiles.
- On stairs of villas, hotels, in living areas, on balconies and terraces, in halls, rooms and corridors of industrial buildings, retail outlets, markets, institutional, service and administration buildings and airports.
- Natural stone coverings can be securely laid in the medium-bed method with PCI Carrament.



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**Features and benefits**

- Plastic, workable bedding mortar, the medium-bed mortar is spread with only an trowel (medium-bed trowel).
- Deformable, 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 flag 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.

**Features and benefits**

- 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.

**Packaging**

25 kg PE-lined heavy duty paper bag

**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.

**Labelling for**

Regulation for hazardous goods on roads	Non hazardous
Regulation for hazardous substances	Irritant, contains cement
<i>For further information refer to Health and Safety.</i>	

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## Storage

Cool and protected from frost, no permanent storage over +30°C.

## Shelf life

Approx. 6 months

## Application

Consumption	approx. 1.3 kg of dry mortar per m <sup>2</sup> and mm adhesive bed thickness
<b>Yield</b>	
Adhesive bed thickness (full bedding)	25 kg are sufficient for approx
- 5 mm	3.9 m <sup>2</sup>
- 10 mm	1.9 m <sup>2</sup>
- 20 mm	1.0 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 +30°C (substrate temperature)
Slake time approx.	3 minutes
Open time* approx.	15 minutes
Working time*	approx. 60 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 +60°C

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

## 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 Gisogrund, diluted 1:1 with water. Prime ground anhydrite and/or gypsum-based floated screeds and poured asphalt screeds indoors with undiluted PCI 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%.

## Application procedure

1. 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.
2. Allow a slake time of approx. 3 minutes and re-mix briefly.

## 3. Installation of natural stone flags

### 3.1 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 rotary motion to obtain an almost full bedding.

### 3.2 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

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medium-bed or flat trowel both to the substrate and the reverse side of the flag. Press down and align the natural stone flag and wedge if necessary. Apply only as much mortar as can be covered with flags within the open time. Check the open time with your fingertip. The application of PCI Carrament to the reverse side of the flag prevents staining from the adhesive bed and enables an almost void free laying.

## Grouting From 1 to 5mm

PCI Carrafug

## 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.

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

## Note

- Do not apply PCI Carrament at substrate temperatures below +5°C and above +30°C or under exposure to extreme heat and strong winds.
- The open time reduces with absorbent substrates (recommendation: priming with PCI Gisogrund, 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 laying natural stone flags on large ground level areas with adhesive bed thicknesses from 15 mm it is recommended to lay flags with a bedding mortar consisting of

suitable sand and the fast curing screed cement PCI Novoment Z1 and/or PCI Novoment Z3 in combination with the bonding agent for natural stone PCI Carrahaft.

- 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 flag.
- Use the thin-bed and pourable mortar PCI CarrafloTT to lay calibrated natural stones or for adhesive bed thicknesses from 2 to 10 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 Technical department.
- When laying natural stones which show an extreme concave arching when absorbing water (e.g. slate) please contact the PCI Technical Help-line.
- 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 +20°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.
- Suitable tools are available from e.g. Collomix GmbH, Horchstraße 2, D-85080 Gaimersheim, [www.collomix.de](http://www.collomix.de).

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- Clean tools and mixing containers with water immediately after use; once the product has cured it can only be removed by mechanical means.
- Shelf life: min. 6 months when stored in dry conditions and protected from frost, no permanent storage over +35°C.

## 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 PCI 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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