

# PCI CARRAFLEX®

Flexible thin-bed mortar for natural stone

## DESCRIPTION

**PCI Carraflex** is a flexible thin-bed mortar for natural stone.

## RECOMMENDED FOR

- Indoor and outdoor use
- Walls and floors
- Laying calibrated natural stone, especially white marble as well as Solnhofen stone and Jura marble in the thin-bed methods.
- On cement screeds, and/or gypsum-based floated screeds, concrete and precast concrete elements, aerated concrete, heated screeds, plasterboards, gypsum fibre boards, dry screeds, insulation boards, plaster slabs, plasters and old wall and floor tiles.
- Residential and business areas, basements, attics, hallways, kitchens, bathrooms, lavatories, staircases and base courses of buildings.

## FEATURES AND BENEFITS

- **Polymer modified – guarantees excellent adhesion even to non-absorbent natural stone such as granites or quartzites**
- **White colour – no staining from the adhesive bed with white marble if the installation is carried out in the combined method (buttering/floating)**
- **Good workability – therefore easy to apply**
- **Resistant to permanent water and frost – multi-purpose use indoors and out on walls and floors**
- **Temperature resistant – from -20°C to +80°C**
- **Corresponds to C2FT in accordance with DIN EN 12004**
- **Rapid setting**
- **Rapid curing – walkable and groutable after approximately 6 hours**

## TECHNICAL DATA - MATERIAL

Material	Dry mortar mixture with special cement and PCI polymers. Does not contain any asbestos or other mineral fibres. No injurious silica dust during the application
Components	1 part
Consistency	Powder
Colour	White

## PREPARATION OF SUBSTRATE

- The substrate must be sound, clean and able to bear weight. Oil stains, bond-breaking residues and contamination (also residues of carpet glues) must be thoroughly removed. The substrate to be tiled must be plumb and flush.
- Concrete floors indoors can be levelled with the self-levelling screed leveller **PCI Periplan** or **PCI Periplan Fein**.

- Prime very absorbent cementitious substrates and aerated concrete indoors with **PCI Gisogrund**, diluted 1:1 with water.
- Gypsum based floated screeds as well as gypsum based substrates should be primed with undiluted **PCI Gisogrund**. Allow the primer to dry.
- Cement screeds must not have a residual moisture content of more than 4% and gypsum based screeds not more than 0.5% (measured with a CM moisture meter).

## APPLICATION

### Mixing

1. Place gauging water (see Technical Data – Application) in a clean mixing container. Add powder and mix with a suitable paddle attached to an electric drill until a plastic, lump-free mortar is achieved.
2. Allow a slake time of approximately 3 minutes, then remix briefly.

### Laying tiles

3. Apply a thin scratch coat onto the substrate using the straight edge of the trowel.
4. Comb mortar onto the fresh scratch coat with the notched edge of the trowel. Apply only as much mortar as can be covered with tiles within the open time (approximately 15 minutes). Test the open time by touching the adhesive bed with your fingertip.
5. Staining from the ridges of the adhesive bed is prevented by void-free laying of translucent natural stone tiles in the combined method (buttering/floating). Backbutter the tiles with **PCI Carraflex**.
6. Place tiles in the adhesive bed with a twist and slide motion and adjust to correct position.

### Grouting

Joint width from 1 to 8mm: **PCI Carrafug**

### Elastic Joints

Corner joints (floor/wall, wall/wall, wall/soffit) and connection joints (fixtures/tiles, wood/tiles) must be sealed with elastic sealant **PCI Carraferm**.

For information about application, please obtain a copy of the BASF “Application Guide for **PCI Carraflex**” from your local representative.

## NOTE

- Do not apply at substrate temperatures below +5°C or above +25°C or under very windy and warm conditions.
- Do not use **PCI Carraflex** to level irregularities in the substrate exceeding 10mm.
- Natural stones must not be laid with **PCI Carraflex** in the dot bonding technique.
- The installation of natural stones on outdoor facades to be carried out in accordance with DIN 18515-1.

# PCI CARRAFLEX®

## CLEANING

Clean tools with water immediately after use. Once the product is hard it can only be removed by mechanical means.

## SHELF LIFE

PCI Carraflex has a shelf life of minimum 6 months if stored in dry conditions. No permanent storage over +30°C.

## PACKAGING

PCI Carraflex is supplied in a 25kg bag.

## PRECAUTIONS

PCI Carraflex contains cement. Avoid contact with eyes and prolonged skin contact. For the full health and safety hazard information and how to safely handle and use this product, please make sure that you obtain a copy of the BASF Construction Chemicals **Material Safety Data Sheet (MSDS)** from our office or our website.

Low in chromates according to TRGS 613.



## TECHNICAL DATA – APPLICATION

Consumption/coverage of <b>PCI Carraflex*</b>	Consumption per m <sup>2</sup>	25kg of <b>PCI Carraflex</b> is sufficient for approx.
Required notch size		
4mm	1.7kg	15.0m <sup>2</sup>
6mm	2.3kg	10.8m <sup>2</sup>
8mm	3.2kg	8.0m <sup>2</sup>
10mm	4.0 kg	6.3m <sup>2</sup>
Working temperature	+5°C to +25°C	
Gauging water for 25kg bag	Approx. 7.25 litres	
Thickness of adhesive bed	2 to 10mm	
Slake time	Approx. 3 minutes	
Working time**	Approx. 1 hour	
Open time**	Approx. 15 minutes	
Curing time**		
- walkable after	Approx. 6 hours	
- groutable after	Approx. 6 hours	
- able to bear weight after	Approx. 14 hours	
Temperature resistance	-20°C to +80°C	

\* The reverse profile of the used ceramic and the surface structure of the substrate to be covered are also important factors, besides the tile size, for the consumption of PCI Carraflex. In practice the consumption may therefore deviate from the indicated values. \*\* At 23°C and 50% relative humidity. Higher temperatures reduce, lower temperatures increase the times given.

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## STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this **BASF** publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

## NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by **BASF** either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not **BASF**, are responsible for carrying out procedures appropriate to a specific application.

**BASF Australia Ltd**  
A.B.N. 62008437867  
Head Office: 11 Stanton Road Seven Hills, NSW 2147  
Ph. (02) 8811 4200

Newcastle (02) 4961 3819  
Canberra (02) 6280 6010  
Brisbane (07) 3633 9900  
Townsville (07) 4774 7344  
Melbourne (03) 9549 0300

Adelaide (08) 8139 7500  
Perth (08) 9366 2600  
Darwin (08) 8984 3269  
Kalgoorlie 0417 772 355

**BASF New Zealand Ltd**  
**BASF WEB SITES**

Head Office: 45 William Pickering Drive, Albany, Auckland Ph: (09) 414 7233  
www.basf-cc.com.au www.basf-cc.co.nz www.meyco.basf.com