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# MasterTile® 250 (formerly known as PCI Pericol 800 EP)

High performance, chemical resistant, epoxy adhesive for bedding of tiles

## DESCRIPTION

A three component epoxy resin based bedding adhesive for stone tiles, ceramic tiles, glass mosaic and acid resistant tiles, in medium and heavy duty corrosive and hygienic environments.

## RECOMMENDED USES

- Indoor and outdoor use
- Kitchens and catering facilities
- Laboratories
- Swimming pools and leisure facilities
- Showers, Artificial water bodies and hot springs
- Joints in Vitrified tiles
- Heavy duty workshops, garages and services facilities
- Bottling plants and breweries
- Food production: meat, fish, vegetable and fruit processing, canning areas, dairies and bakeries.
- Electrical substations and plant rooms
- Sewerage plant & sewer lines.

## FEATURES AND BENEFITS

**Excellent resistance** to most aqueous systems including sewerage, urine, salt water, dilute acid and alkali, oils and fats

**Stain free finish**

**Crack-free and non-shrink**- curing and setting without shrinking and very high adhesion to tiles and substrate.

**Resistant to frost and weathering**,- multi-purpose use indoors and outdoor.

**Good Workability** - easy to apply.

**Non sag** -Suitable for vertical and horizontal applications in interior and exterior locations.

## PROPERTIES

### Chemical Resistance

Excellent resistance to most aqueous systems including sewage, urine, salt water, dilute acids, alkalis, oil and fats.

## Typical Properties

Aspect	: Blackish Grey
Mixed density	: 1.85 gm/cc
Mixing Ratio, by weight	: 0.65(B):0.33(H): 4.04(F)
Pot life	: 60 Minutes at 25°C 30 Minutes at 40°C
Volume solids	: 100 %
Compressive strength (ASTM C 579)	: 50MPa at 1 day 60 MPa at 3 days 65MPa at 7 days
Flexural strength (ASTM C 580 )	: 20MPa at 7 days
Tensile strength (BS:6319 pt 7)	: 9 MPa at 7 days
Adhesive bond strength to concrete(ASTM D4541)	: > 1.5 MPa at 7 days

## APPLICATION

Ensure all laitance and contaminants such as oil, grease and coating systems are removed by either mechanical wire brushing or grit blasting. The surface should be dry and any dust should be removed by an industrial vacuum. The surface should contain no more than 5% moisture and any major repairs in the form of damaged arises, cracks and honeycombing should be repaired with the appropriate BASF repair system. Where minor blemishes like blowholes exist, these can be filled out simultaneously with the bedding adhesive when it is applied.

Prior to application, **MasterTile 250** should be stored under cover and protected from extremes of temperatures which may cause inconsistent workability and cure times for the mixed material. Ideally, at least 24 hours before mixing, **MasterTile 250** systems should be maintained at approximately 20°C. During application in cold conditions, correct conditioning can help, but application should be halted if the ambient temperature is likely to fall below 10°C. Consideration should be given to the substrate or base slab as it is likely to be considerably colder than the surrounding air temperature. When



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temperatures exceed 30°C during application, working times may be reduced by as much as 50%.

### Mixing

**MasterTile 250** is of a heavy consistency and should be mechanically mixed. Using a slow speed electric drill with a paddle attachment, pour thereactor (Part B) into the base tin (Part A) and mix for approximately 2 minutes or until a uniform consistency and colour is obtained; slowly add the filler (Part C) mixing until a lump free, uniform consistency is achieved.

### Bedding

To the prepared surface apply a solid bed of adhesive to a minimum thickness of 3mm. Ensure that the size of the working area can be tiled within the pot life of the **MasterTile 250**. On vertical applications the adhesive must be applied with a notched trowel to leave ribbed bedding.

### Tiling

Tiles and paviours should be pressed firmly into place with a twisting motion until properly aligned and bedded. On vertical applications tiling should begin from the bottom upwards. Ensure that at least 75% of the tile back is in contact with the adhesive. A minimum width of 3mm must be left around tiles for grouting.

### Grouting

The grouting operation can be carried out simultaneously with the application of the bedding mortar or after the bedding mortar has set. Use MasterTile 100 grouting of the tile joints. Following the grouting operation use a fibrous pad or wet soft cloth to clean off the excess material. This should take place within 15 minutes and care should be

exercised not to use excess water or allow water to come into contact with the wet grout. Surplus material must be removed from the face of the tiles before it sets.

### Watch points

Movement joints should be provided in accordance with normal practice.

### ESTIMATING DATA

One pack of 5 Kg yields 2.7 litre volume which shall cover 1 m<sup>2</sup> tiling at approx. 3mm bed thickness. Considering the uneven substrate profiles, it is strongly advised to conduct a trial application to evaluate the coverage at site. On an uneven substrate bed thickness can increase as much as 6 – 10mm and reduce the coverage drastically.

### PACKAGING

**MasterTile250** is available in 5 kg pack.

### SHELF LIFE

Store under cover, out of direct sunlight and protect from extremes of temperature. In tropical climates the product must be stored in an air-conditioned environment.

Shelf life is 12 months when stored as above.

### PRECAUTIONS

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 Material Safety Data Sheet (MSDS) from our office or our website.

MasterTile250/01/0313

### STATEMENT OF RESPONSIBILITY (Disclaimer)

The technical information and application advice given in this BASF Construction Chemicals 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.

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### NOTE

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