

# MasterTile<sup>®</sup> 100 (formerly known as PCI Perigrout EP)

## High performance epoxy grout for tile joints

### DESCRIPTION

Epoxy resin based grouting system for pavements, ceramic tiles, stone tiles, mosaics and acid resistant tiles in medium and heavy duty corrosive and hygienic environments. **MasterTile 100** is available in selective RAL shades.

### 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

**Chemical resistance** -Resistant to many acids, lyes, grease and oil.

**Water miscible formula** - Stain free finish

**Water impermeable and water vapor barrier**, - protects moisture-sensitive substrates from water.

**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 outdoors.

**Good Workability** - easy to apply.

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

**Colored** -Available in range of RAL shades

### PROPERTIES

#### Chemical Resistance

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

#### Typical Properties

Mixed Consistency	: paste
Mixed density	: 1.82 gm/cc
Mixing Ratio, by weight	: 0.5(B):0.3(H): 2.150(F) : .050(Cp)
Pot life	: 60 Minutes at 25°C 30 Minutes at 40°C
Volume solids	: 100 %
Compressive strength (ASTM C 579)	: 40 MPa at 1 day 60 MPa at 3 days 70 MPa at 7 days
Flexural strength (ASTM C 580 )	: 25 MPa 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
Water cleanability	: > 60 min at 25°C

### APPLICATION

#### Surface preparation

The grouting operation can be carried out simultaneously with the application of the epoxy bedding mortar or after the cementitious bedding mortar has set and fully hardens. Ensure all laitance and contaminants are removed.

Prior to application, **MasterTile 100** systems 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 100** 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



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base slab as it is likely to be considerably colder than the surrounding air temperature. When temperatures exceed 30°C during application, working times may be reduced by as much as 50%.

## Mixing

MasterTile 100 is paste consistency and should be mechanically mixed. Using a slow speed electric drill with a paddle attachment, pour the color paste and hardener (Part B) into the base tin (Part A) and mix for approximately 2 minutes or until a uniform consistency and color is obtained; slowly add the filler (Part C) mixing until a lump free, uniform consistency is achieved.

## Grouting

The grouting operation can be carried out simultaneously with the application of the epoxy bedding mortar or after the cementitious bedding mortar has set and fully cured. Apply the epoxy grout to the joints by plastic spatula and finish off. 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.

## ESTIMATING DATA

One pack of 3 Kg yields 1.6 litre grout volume.

## PACKAGING

MasterTile 100 is available in 3 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.

## 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.

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