

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.

Uses

- Indoor and outdoor use
- Kitchens and catering facilities
- Laboratories
- Swimming pools and leisure facilities
- Showers, Artificial water bodies and hot springs
- 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.

Advantages

- Resistant to chemicals, many acids, lyes, grease and oil.
- Water miscible formula - Stain free finish
- Water impermeable and water vapour barrier, protects moisture-sensitive substrates from water.
- Crack-free curing and setting without shrinking, very high adhesion to tiles and substrate.
- Resistant to frost and weathering, multi-purpose use indoors and outdoor.
- Workable and easy to apply.
- Suitable for vertical and horizontal applications in interior and exterior locations.

Specification Clause:

Epoxy resin based tile adhesive shall be PCI PERICOL 800 EP, a three component system. The product shall have excellent mechanical properties and shall exceed compressive strength of 60 MPa at 7 days, flexural strength of 20 MPa and Tensile strength of 9 MPa at 7 days. The product shall have adhesive bond strength exceeding 1.5 MPa when tested to ASTM D4541 method to concrete substrate. The formulation must be water miscible to avoid stains on the tiles and easy cleaning.

Chemical Resistance

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

Typical Properties

Aspect	: Blackish grey
Mixed density	: 1.85 gm/cc
Pot life	: 60 Minutes at 25°C 30 Minutes at 40°C
Volume solids	: 100 %
Compressive strength (ASTM C579)	: 50 MPa at 24 Hours 60 MPa at 3 days 65 MPa at 7 days
Flexural strength (ASTM C 580)	: 20 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

Direction for use

Surface preparation

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, PCI PERICOL 800 EP 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, PCI PERICOL 800 EP 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 temperatures exceed 30°C during application, working times may be reduced by as much as 50%.

Mixing

PCI PERICOL 800 EP is of a heavy consistency and should be mechanically mixed. Using a slow speed electric drill with a paddle attachment, pour the

reactor (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 PCI PERICOL 800 EP. 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 PCI PERIGROUT EP 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.

Coverage

One pack of 5 Kg yields 2.7 litre volume which shall cover 1 m² 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

PCI PERICOL 800 EP is available in 5kg pack.

Storage and 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.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice please consult BASF's Technical Services Department.

Safety precautions

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs (which can also be tainted with vapour until product fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use. Do not reuse containers for storage of consumable item. For further information refer to the material safety data sheet. MSDS available on demand or on BASF construction chemicals web site.

Note

All BASF Technical Data Sheets are updated on regular basis; it is the user's responsibility, to obtain the most recent issue.

Field services where provided, does not constitute supervisory responsibility, for additional information contact your local BASF representative.

Disclaimer

Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the competence of any labour involved in the application are beyond our control.

TDS Ref. no. : Pxx800EP/01/0809

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