

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. PCI PERIGROUT EP is available in selective RAL shades.

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.

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.
- Available in range of RAL shades

Specification Clause:

Epoxy resin based tile joint grout shall be PCI PERIGROUT EP having excellent mechanical properties and shall exceed compressive strength of 70 MPa, flexural strength of 25 MPa and tensile strength of 9 MPa at 7 days and 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

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

Direction for use

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, PCI PERIGROUT 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 PERIGROUT 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 PERIGROUT EP is paste consistency and should be mechanically mixed. Using a slow speed electric drill with a paddle attachment, pour the colour paste and hardener (Part B) into the base tin (Part A) and mix for approximately 2 minutes or until a uniform consistency and colour is obtained; slowly



The Chemical Company

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.

Coverage

One pack of 3 Kg yields 1.6 litre grout volume.

Packaging

PCI PERIGROUT EP is available in 3 kg 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.

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