

PC Grout EP



High Performance Epoxy Grout

Product Overview

PC Grout EP is a three-component epoxy based epoxy grout designed for heavy duty engineering applications and bases for equipments/machines of all types.

Areas of applications

1. PC Grout EP is a recommended product at all sites where dynamic loads, vibrations and heavy stresses are present.
2. It is also recommended in areas subjected to corrosion or harsh chemicals such as alkalis, solvents, etc.
3. It is also recommended in machinery base plate areas, bolt areas, heavy equipments, where tensile strength is far more than any cementitious system can withstand.
4. It can also be used as repair mortar mortar and pour-backs for PT projects.

Properties

1. PC Grout EP is recommended for its high strength and ability to withstand cycles of vibrations and wear.
2. It is resistant to chemical attack, major strong solvents, alkalis and acids.
3. It is not only bonds to the substrates excellently, but also requires no priming.
4. It not sets fast but gives quick service and even stable at deeper and thick sections.

Guidelines for Usage

1. **Surface preparation:** Concrete surfaces should be clean, dry and free from laitance.

Sandblasting/grit blasting or mechanical wire brushing may be necessary. Conditions should be maintained in such a way that the substrate doesn't suffer from rising dampness. Forms must be liquid tight to prevent leakage, should be strong and well braced.

Fresh substrates: New concrete surfaces must be a minimum of 28 days old or must have moisture less than 5% prior to the application. Laitances and deposits must be removed by light grit blasting/ grinding. Then it should be washed with clean water and allowed to dry.

Old substrates: Any contaminants such as oil, grease, etc., loose particles, loose debris and dust should be removed by mechanical means. The substrate should be thoroughly cleaned and allowed to dry. Use acid etching only when mechanical means are not applicable.

2. Mixing: The entire contents of the Hardener (Part -B) should be poured into Base (Part -A) and mixed thoroughly for 2 minutes using a drill or mixing prop. Then slowly add filler (Part -C) and mix continuously. Make sure to obtain a uniform, homogeneous and lump-free mix. For larger jobs use a mortar mixer and place immediately.

3. Application: Once mixed, the mix should be poured into bolt holes or blockouts by a funnel. While grouting plates, pour grout into the headbox and allow to flow under the plate. Straps pre-placed under the plate will aid in working the grout across. Grout should be placed at a minimum of 1" (25 mm) thick and a maximum of 6" (152 mm) per lift when placed in a large mass. If a smooth finish is desired, the

surface of the grout may be brushed and troweled with a light application of solvent.

4. Curing: PC Grout EP requires no special curing.

Coverage area

Consumption of PC Grout EP is wholly dependant upon surface conditions, site trials are therefore it is recommended to ascertain actual usage on uneven substrates. However, as a guideline, we can consider consumption as 50 kg/m² when applied at a thickness of 25 mm

Packages available

PC Grout EP is available in 27 kg packs (Part -A in 4.6 kg, Part -B in 2.3 kg packs, and Part -C in 20.1 kg)

Storage and Shelf life

PC Grout EP should be stored away from direct sunlight. It has 12 months shelf life when stored in original, dry and unopened packs.

Safety Measures

PC Grout EP must be stored in dry place. Proper safety precautions and tools must be taken into consideration, i.e. wearing safety gloves, safety goggles, safety apron and nose masks, etc. Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Reseal containers immediately after use. All tools and equipment should be cleaned with proper solvents immediately after use. Spillages should be absorbed with sand or sawdust and disposed of in accordance with local regulations.

For further related to the applicable safety precautions, please contact Mcrete technical representative.

Technical data

Aspect	Dark grey
Density	2 g/cc
Compressive strength	60 MPa @ 1day 75 MPa @ 3 days 83 MPa @ 7days 91 MPa @ 28 days
Flexural strength	25 MPa @ 1day 26 MPa @ 3 days 27 MPa @ 7days 28 MPa @ 28 days
Tensile strength	14 MPa @ 1day 14 MPa @ 28 days
Chemical resistance	Resistant to all strong acids, alkalis, solvents, etc.
Peak exotherm	30 °C at 320 mins.
Abrasion and Impact resistance	Greater than that of Concrete.

For further clarifications Please contact on below address

Pinjala Chemicals Pvt. Ltd.

Plot No. 172/A, Road No. 24, Phase 2

Mallapur IDA, Hyderabad-500076,

Email: info@mcrete.com, Website: www.mcrete.com

Ph no: +919985898569, 040-27158569

Pinjala Chemicals Inc.

30273 Eastridge Drive, Spring,

Texas 77386, USA

Email: info.us@mcrete.com, Website: www.mcrete.com

Ph no: 001-3136861237