

CIKOgrout EPC

High strength, epoxy resin based pile-cap grout

Description

CIKOgrout EPC is a three component epoxy resin based high strength pile-cap structural grout for resurfacing pile top and to fill voids.

CIKOgrout EPC is a solvent free epoxy resin based pile cap grout consisting of base, hardener, graded filler and rheology modifier resulting in a high-flow, high strength grout suitable for gaps with thicknesses from 10 mm to 150 mm.

Properties

- Three component system.
- High early and final strength.
- Resistance to wide range of chemicals.
- Withstands static and dynamic loads.
- Provides high compressive, flexural and tensile strengths.

Application area

- Re surfacing pile-caps.
- Filling gaps to bring structural stability.
- Filling voids.
- Structural repairs.
- Repair of pre-cast concrete members.

Physical properties

Form	3 component system Part-A & B : Liquid Part-C : Powder	
Colour	Natural or light grey	
Gel time ASTM D 2471	45 minutes at 25 ⁰ C	
Compressive strength ASTM C579	1 day	≥70 N/mm ²
	7 days	≥100 N/mm ²
Flexural strength ASTM C580	3 days	≥27 N/mm ²
Tensile strength ASTM C307	7 days	≥12 N/mm ²
Chemical Resistance	Resistance to most chemicals. Specific data available on request.	

Coverage / Yield

Each 25 kg pack of CIKOgrout EPC yields 12.5 litres of Grout.

Application instructions

Surface preparation

Clean the concrete pile surface to remove loose and unsound material by means of compressed air or any other means to attain a sound concrete surface. Grease or oil traces if present shall be removed by suitable means. The surface must be clean, dry and made free from dampness and standing water.

Formwork

Water tight formwork shall be made around the grouting area to the required height. Mastic sealant can be used to seal the gap between formwork and concrete face to make the formwork watertight.

Mixing

The base [Part-A] and hardener [Part-B] components of CIKOgrout EPC should be mixed thoroughly using a heavy duty slow speed drill-paddle assembly for two to three minutes and ensure a homogenous mix. The third component should be dispensed slowly into the mix and mixing should be continued for four to five minutes until a homogenous mix and colour is obtained.

Placing

Place the mixed grout into the formwork immediately and level the grout to the required thickness.

Note: Application temperature shall be between 5 – 35⁰C.

Packaging

CIKOgrout EPC is available in 25kg kits consisting of Part-A, B & C.

Shelf life

CIKOgrout EPC has a shelf life of 12 months if stored in accordance with CIKO instructions.

Storage

CIKOgrout EPC should be stored under cool enclosed shaded area at temperatures between 5 – 35°C.

Health & safety

CIKOgrout EPC should not come in contact with eyes or be swallowed. Ensure adequate ventilation and avoid inhalation of vapours. Applicator should wear appropriate clothes, gloves and goggles. Use of barrier cream is recommended to provide additional skin protection. If comes in contact with eyes, flush with plenty of fresh water and seek medical advice.

Refer Material Safety Data Sheet for further details.

Technical Support

For any technical support, do not hesitate to contact CIKO team at any time as CIKO offers on and off site services to end users, specifier and contractors.

More from CIKO Middle East

A wide range of construction chemical products are manufactured by CIKO Middle East which includes:

- Concrete admixtures and additives
- Waterproofing and damp proof coatings
- Surface treatments
- Flooring and toppings
- Grouts and anchors
- Tile adhesives and grout
- Concrete repair materials
- Adhesives and bonding agent
- Protective coating
- Joint Sealants and Moulding compounds
- Ancillaries

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Note: The information presented herein based on the best of our knowledge and expertise for which every effort is made to ensure its reliability. Although all the products are subjected to rigid quality tests and are guaranteed against defective materials and manufacture, no specific guarantee can be extended because results depend not only on quality but also on other factors beyond our control



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