

CIKOgrout EP

Smart Chemical Solutions



Epoxy resin based, high strength grout

Description

CIKOgrout EP is a three-component epoxy resin based high strength grout for filling gaps between similar or dissimilar substrates subjected to dynamic loads. CIKOgrout EP is suitable for grouting anchor bolts and base plates.

CIKOgrout EP is a solvent free epoxy resin based grout consisting of base, hardener, graded filler and specialty additives resulting in a free-flow, high strength grout for application thicknesses ranging from 5 to 150 mm

Properties

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

Application area

CIKOgrout EP can be used for the grouting of,

- Heavy machinery base plates.
- Anchors.
- Turbine base.
- Bridge bearing and pile caps.
- Pumps and compressor base.
- Pre-cast concrete parts.
- Rails.

Physical properties

Form	3 component system Part-A & B : Liquid Part-C : Powder
Colour	Standard grey
Full cure	7 days
Flowability [channel]	1.5 m with 50mm gap

Pot life	30-45 minutes	
Compressive strength ASTM C 579	1 day	≥70 N/mm ²
	7 days	≥100 N/mm ²
Flexural strength ASTM C580	7 days	≥25 N/mm ²
Tensile strength ASTM C307	7 days	>12.5 N/mm ²
Chemical Resistance	Resistance to most chemicals. Data available upon request.	

Coverage / Yield

25 kg pack of CIKOgrout EP yields 12.5 litres of grout.

Application instructions

Surface preparation

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

Formwork

Water tight formwork must be made around grouting area to the required height. It is recommended to restrict the width of shoulders around base plate to a maximum of 50mm from the face of the base plate. 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 component [Part-B] of CIKOgrout EP should be mixed thoroughly using a heavy duty slow speed drill-paddle assembly for two to three minutes and ensure that a homogenous mix is obtained. The third component [Part-C] should be dispensed slowly into the mix and mixing should be continued until homogenous a mix and colour is obtained. It is recommended to have minimum two mixing units for continuous grout pour into the base

plate. The number of mixing units depends on size and volume of grouting.

Placing

Pour the mixed grout from one side or corner of the base plate to avoid air voids. Maintain a minimum of 15cm pouring head to achieve maximum flow property of the grout. The mixed material must be placed well before the pot life of the material. For machinery installations, anchor bolt pockets can be grouted prior to base plate grouting.

Note: Application temperature must be between 5⁰ C and 35⁰ C.

Packaging

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

Shelf life

CIKOgrout EP has a shelf life of 12 months if stored in accordance with manufacturer instructions.

Storage

CIKOgrout EP should be stored under cool enclosed shaded area at temperatures between 5 – 35⁰C.

Health & safety

CIKOgrout EP 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