

CIKOgrout ING

Smart Chemical Solutions



Solvent free, low viscosity epoxy resin based injection grout

Description

CIKOgrout ING is a solvent free two component epoxy resin based injection grout recommended for filling cracks in concrete and masonry. It provides excellent adhesion to concrete substrates and forms a monolithic element.

CIKOgrout ING is a low viscosity epoxy resin designed to be injected into the cracks using suitable injection equipment.

Properties

- Two component epoxy based system.
- Provides excellent adhesion to many substrates.
- Permanent crack filler for stable cracks.
- Suitable for structural crack repair.
- Non-shrink and suitable for hot climate.
- Chemical resistant.

Application area

- For repairing static structural concrete cracks having crack size between 0.1mm and 1.0mm.
- Suitable for vertical and horizontal applications
- High compressive and flexural strengths exceeding that of the concrete structural element.
- Well suited for pressure injection in cracks of smaller widths.

Physical properties

Form	Two component system Part-A : Liquid Part-B : Liquid
Colour	Clear to light brownish
Mixing ratio	Pre-weighed packs
Solids %	100
Finish	Clear gloss
Flash Point	Above 60 °C

Pot life @ 25 °C	≥60 minutes
Surface dry	3-4 hours
Tack free	Approx. 8 hours
Full cure	7 days
Compressive strength ASTM C579	≥70 N/mm ²
Tensile strength BS6319	>15 MPa
Flexural Strength ASTM C580	≥40 N/mm ²
Bond Strength	Failure at concrete

Coverage

CIKOgrout ING will provide a yield of 4.0 litres per pack. Volume of grout required depends on length, width, and depth of the crack.

Application instructions

Surface preparation

The cracks must be cleaned to remove contamination, paint, loosely held materials, algae etc. Oil or grease traces if present must be removed by steam cleaning or by using proper detergents. The surface can be cleaned using high pressure water jetting or sand blasting. Finally blow the cracks using compressed air and allow drying.

Sealing cracks with packers

The position of the packers shall be identified with respect to the width of the crack and size of the structural element. Drill holes on identified positions and to required depth as per the packer's size. Use compressed air to remove dust. Fix packers after cleaning the drilled holes. Nipple must be fixed at the mid distance between two packers to allow excess grout to flow outside the cracks.

Cracks between the packers and nipples must be repaired using CIKO epoxy putty, which is an epoxy resin based repair material, to make cracks leak proof.

Mixing

The base and hardener components of CIKOgrout ING should be mixed thoroughly using a heavy duty slow speed drill fitted with paddle for three to five minutes and ensure a homogenous mix is obtained.

Application Method

Having made the necessary arrangements, inject the mixed material into the cracks through packers using injecting equipment maintaining minimum 4.0 bar pressure. On getting the crack filled, excess epoxy grout may flow out from adjacent nipples. Immediately block the nipples and shift injecting into next packers. Complete injection on one operation and allow for 24 hours drying. Remove packers and repair the holes using epoxy repair mortar CIKOpoxy putty.

Packaging

CIKOgrout ING is available in 1.0 and 4.0 litre kits consisting of Part-A & B.

Shelf life

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

Storage

CIKOgrout ING should be stored under cool enclosed shaded area at temperatures between 5 – 32°C.

Precautions

CIKOgrout ING should not be applied at temperatures below 10 °C and on highly damp surfaces.

Health & safety

CIKOgrout ING 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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