

CICO POXY 21LV

LOW VISCOSITY HIGH STRENGTH INJECTABLE EPOXY GROUT

CICO POXY 21 LV is a two component solvent free, low viscosity, Free flowing, and normal curing epoxy resin system designed especially for pressure injection into concrete for carrying out structural repairs. Due to its low viscosity it can be injected in to extremely fine cracks also. The cured resin possesses high mechanical strength, excellent adhesion, practically no shrinkage and a chemical resistance typical of all epoxy resin system. Fine cracks and small voids can be successfully sealed with **CICO POXY 21 LV**. Although **CICO POXY 21 LV** has very high strength, the cured material is not brittle and remains slightly flexible. **CICO POXY 21 LV** is supplied in premeasured quantities as component A-Resin and Component B-Hardener.

USES

CICO POXY 21 LV is used to grout fine cracks, voids and fissures of concrete structures and rocks.

FEATURES

Low viscosity and good wetting property facilitate deep penetration in to the structures. Rapid strength gain.

TECHNICAL DATA

Mixing Ratio (Pack-A:Pack-B) by weight	2:01
Specific Gravity	0.9 ± 0.2
Viscosity (Brookfield) at 30°C	300±100 cps
Pot Life	45-70 minutes at 30°C
Compressive Strength, 24 hours	350 kg/cm ² at 30°C (minimum)
7 days	750 kg/cm ² at 30°C (minimum)
Bond Strength, 7 days	35kg/cm ² , Concrete Failure (minimum)
Tensile Strength, 7days	120- in 7 days at 30° C (minimum)
Chemical Resistance	Unaffected by a wide range of chemicals, Oils etc.
Shelf Life	24 months

APPLICATION DATA

Surface Preparation

The area to be treated should be properly cleaned, so that no dust, laitance, grease, fungus etc. adhere on the surface. Injection nipples are to be fixed along crack line @ 500 to 800 mm c/c depending on the cracks and nature of concrete. If required for effective treatment, the distance may be reduced. Before the injection starts all cracks and crevices are to be sealed with CICO POXY 2112/2119 mortar and surface sealing is to be done for other porous areas.

Mixing

Mix all the components-B (Hardener) with Component –A (Resin). Mix for 2-3 minutes to uniform colour without any streak using a drill and paddle (speed 400 – 450 R.P.M.) mixer so as to avoid any entrapped air. Mix only sufficient material for immediate requirement. Leave the mixed material to stand for 2-3 minutes to enable entrapped air, if any, to escape from the mix and then use as quickly as possible

Injection

The grout mixture should be pumped by a positive displacement plunger type pump or any other suitable hand pump. Inject at slow and even pressure through the injecting nipples till refusal or when the grout oozes out from nipple immediately adjacent to or above the one being injected.

HANDLING

Store the material in shaded cool place and keep it away from fire or any heated body. Clean all tools with MEK or any standard solvent for Epoxy resin before full hardening. If there is any splash of material to Eyes the same should immediately be cleaned with clean potable water.

PACKAGING

CICO POXY 21 LV is available in 15 Kg pack.

Important Note:

All CICO products are sold in the market after strict Quality Control in line of ISO 9001 and guaranteed against any manufacturing defect. Although the basic formulation of Company's products generally remains unchanged, production refinements arising from continuing research and evaluation program may occasionally result in marginal changes in properties. CICO aspires to ensure that any recommendation, advice, test data, specification, method statement and other information given in this product datasheet is accurate and best of company's knowledge. Since, the company (CICO TECHNOLOGIES LTD) has no control over the selection of its product, applicators, application methodology, how and where it is applied, therefore, the company cannot accept any liability directly or indirectly arising from the use of its product. It is important to any customer, user or specifier satisfies him / herself that the product is suitable for the intended purpose including health, safety and environmental aspect. Unless or otherwise agreed in writing, all products of the company are sold strictly pursuant to the terms of our standard conditions of sale which are available upon request. All information and technical assistance is given without warranty or guarantee and is subject to change without notice. All customers, users, specifiers should ensure that they examine the suitability of the product with company's latest product data sheet.

CICO TECHNOLOGIES LIMITED

Corp. Office: C-120, 2nd Floor, Okhla Industrial Area,
Phase –I, New Delhi-110 020
Tel. No: 91-11-4050 9400, Fax: 91-11-4050 9413
E-Mail: cicotech@cicogroup.com
Web Site: www.cicogroup.com

