

Cicogrout®EPL

High Strength Large Pouring Non-Shrink Epoxy Grout

DESCRIPTION

Cicogrout®EPL is a three component, medium viscosity, early high strength, and solvent free, epoxy grout. All parts are pre-weighed and packed for easy mixing on-site. Cicogrout®EPL is designed to fill large grouting pouring that falls between 35–120 mm thickness in one go. Cicogrout®EPL can be used in damp situations.

USES

- Grouting of heavy industrial equipment that is subjected to bear dynamic and vibrating loads.
- Pile cap repair, waterstop and sealing treatment.
- Grouting and fixing of chemical liquids pumps.
- Large Gap Grouting.
- Deep and large concrete cavities repair
- Big anchor boxes
- Rails fixation
- Heavy steel frame fixation.

ADVANTAGES

- Made in accordance with (Dimension Stability Technology)
- Non-shrink.
- High chemical resistance.
- High compressive strength.
- High resistance for vibrating loads.
- Good flow characteristics.
- Can be applied over damp surfaces.
- Doesn't require bonding agent application.
- High bond strength to steel and concrete.
- Replacing concrete when powerful anchoring is required.
- Can be used in high quality repair.

PACKAGING

40 kg set

SHELF LIFE & STORAGE

12 months storage life if stored in its original unopened containers under a dry and shaded place in a temperature from 5°C to 40°C.

TECHNICAL PROPERTIES

Appearance	Sandy mortar
Mixed Grout Density	2050±50 kg/m³
Pot Life @ 25°C	> 50 min.
Water absorption (ASTM C413)	0.12%
Grout gap thickness	35-120 mm
Yield (40 kg set)	19.5 Liters

MECHANICAL CHARACTERISTICS

Compressive Strength (ASTM C579)	
1 day	88±2 N/mm²
3 days	94±2 N/mm²
7 days	102±2 N/mm²
14 days	110±2 N/mm²
Flexural Strength (ASTM C580)	
1 day	20.5±0.5 N/mm²
3 days	22.5±0.5 N/mm²
7 days	24±0.5 N/mm²
14 days	26±0.5 N/mm²
Tensile Strength (ASTM C307)	
1 day	11±0.5 N/mm²
3 days	13±0.5 N/mm²
7 days	14.5±0.5 N/mm²
14 days	15.5±0.5 N/mm²

APPLICATION INSTRUCTIONS

Surface Preparation

The surfaces to be grouted with Cicogrout®EPL should be clean and free from all contaminants such as oil, grease, laitance, paint, or corrosion products. Any contamination should be removed by mechanical means to produce a sound substrate.

The bond surfaces should be roughened mechanically prior to grout application to obtain a good mechanical key. All under faces of steel base plates and skids should be clean and rust-free. Any oily or greasy materials should be removed.

Mixing

Use a clean suitable container (at least 5 liters more than the grout set yield volume). Always, add component B to component A and mix for 10 seconds. Then start adding component C (the filler) to the mix during mixing. For one set of mixing, use a high torque medium speed mixer and suitable pedal for about 60 seconds. It is recommended to keep the mixed grout temperature in the range of 5–35°C, by storing it in cold conditioned air for at least 24 hours before using it in hot weather, and by using a hot water bath mixing in cold weather, while storing, mixing, and placing should be under shade all the time.

Application

Mixed grout should be kept for at least 10 minutes in its container after mixing, to allow entrapped air bubbles to come out. Choose the pouring point that saves traveling distances of grout i.e. the center of the longest side of a rectangle. The pouring point is preferable to be at least 150 mm higher than the other sides, to enlarge the grouting pressure; the same action could be done by using a pyramidal wooden duct with the same height for pouring. It is essential to pour a continuous current of grout to avoid loss of workability during pouring, so, the required quantity of grout should be previously estimated and prepared in advance. A small spatula or steel rod could be used to help grout spread underneath the base plate/skid during casting.

Curing

Cicogrout®EPG doesn't need curing, only keep it shaded, and don't expose it to direct sunlight or any heat source for at least three days after pouring.

Max. Horizontal Pouring Distance / Thickness

125 cm @ 35 mm Gap Width @30°C

30 cm @ 120 mm Gap Width @30°C

Large Quantity/Pouring Depth

Cicogrout®EPL is a non-shrink product, but all epoxy grouts are exothermic materials, so, if the required grouting depth exceeds 120 mm, it should be cast on multi-stage pouring layers. The in-between pouring time depends on ambient temperature, but it's recommended to wait till the first layer gets cold. Never pour Cicogrout®EPL from opposite sides at a time, otherwise, air will be entrapped under the base plate/skid forming critical voids in the bearing area. Don't compact Cicogrout®EPL by any means even by hand tools, and if surface smoothing is required, wait for not less than 30 minutes after pouring to finish the surface with a proper spatula or steel float.

CLEANING

Tools freshly contaminated with Cicogrout®EPL can be cleaned using Cicosolvent. Hardened material can be removed by mechanical means.

PRECAUTIONS

Health And Safety

Cicogrout®EPL is non-hazardous. It should not be swallowed or allowed to come into contact with skin or eyes. Suitable protective goggles and gloves should be worn. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. When contact with the skin is made, wash off immediately with soap and water. If swallowed, seek medical attention immediately, do not induce vomiting.

TECHNICAL SUPPORT

CIC provides on-site assistance, as well as consulting services on projects when requested. Technical data sheets on other CIC products and guidance on their use are available on request



Warranty

CIC products are guaranteed against defective materials and manufacture and sold subject to CIC's standard terms and conditions of sale. Whilst CIC endeavors to ensure that any advice, information or recommendation given is correct, the company cannot accept any liability either directly or indirectly arising from the use of its products. User of the product must test the product's suitability for the intended application and purpose, since the company has no control over the application of its products. Information contained in this document is given on the best current knowledge. Our Products are in continuous development and CIC reserves the right to change the product without prior notice.

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