

CAT. No. GRT-04-2211

ISOPOX GROUT-LE

High Strength, Flowable Grout

ISOPOX GROUT-LE is three- component, flowable epoxy based grout. It is a 100% solids, solvent free system consisting of specially formulated epoxy resin, polyamine hardener and graded quartz aggregate and fine fillers. This system is characterized with high mechanical strength, superior adhesion, non-shrink, high resistance to creep at high operating temperature and chemical resistance. It is formulated to withstand impact, vibration and dynamic operating loads in a wide variety of applications.

USES

ISOPOX GROUT-LE is used for grouting beneath heavy duty equipment requiring exceptional stability against dynamic load and intense impact and vibration and those requiring excellent resistance to chemical spills. Typical equipment suited for application with **ISOPOX GROUT-LE** are: compressor, pumps, pulverizers, press, crane and transporter rails, turbines, rolling miles, hoist, all types of anchors, fixing bolts, welding joints/shear keys in precast, prestressed box girders for bridges etc.

ADVANTAGES

- High mechanical strength; fast strength gains.
- High resistance to creep at high operating temperature. High resistance to dynamic loads, vibrations and impact.
- Non-shrink and chemical resistant.
- Excellent adhesion- no primer required.
- Low exotherm, suitable for deep pours. Very flowable. No segregation Factory pre-weighed ready to mix at site.
- Greater than 95% effective bearing.

TYPICAL PROPERTIES

1. Compressive strength, ASTM C 579-18, N/sq. mm
1 Day : + 90
7 Days : + 100
2. Flexural strength, ASTM C 580-18, N/sq. mm
1 Day : + 25
7 Days : + 30
3. Linear shrinkage, ASTM C 531-18, % : 0.01
4. Full cure : 7 Days
5. Working time @ 25/35/45 celsius : 90/60/30 minutes

APPLICATIONS

- Wide and narrow precision base plate grouting : 15-150mm single pour
- Anchor bolt grouting (narrow clearance) : + 20mm

DIRECTION FOR USE

GROUTING BNEATH EQUIPMENT

Concrete should be at least 28- day old and shall have reached its designed strength and dimensional stability. All surface to be in contact with the grout shall be completely dry and free of oil, grease, laitance and foreign matter. Forms should be strong, braced and properly secured and liquid tight to prevent leaks.

Seal joints using putty or caulking compound. To facilitate stripping, forms should be coated with wax paste or wrapped with polyethylene plastic sheet. Mix the two liquid components first (parts A and B) using a slow speed electric drill fitted with a paddle (200 -300 rpm) for 2 minutes. Transfer the mixed liquid to a suitable, clean container, then add part C filler and mix another 3 minutes until all aggregates are wetted. After mixing, place the grout from one side to avoid air entrapment. Rods and plungers may be used to facilitate placement. Place grout in such a manner that it has the shortest distance to flow. For longer pours, a pressure head is recommended to provide a constant head of grout and to ensure a continuous, uninterrupted flow. Grouting should be carried out in such a manner that the pressure head is always maintained above the lower level of the base plate to ensure that no air is entrapped.

The final grout level should be slightly above the underside of the base plate. Final finishing of exposed surfaces is aided by spraying a very light mist of ISOKLEEN just before material become unworkable. Finish with trowel moistened with ISOKLEEN. Allow to air cure. Forms can be remove a soon as grout had hardened initially.

Note: Grouting of equipment and machineries should be designed such that the total load (equipment weight and bolt load) does not exceed 3.5 N/sq.mm in order to minimize creep.

ANCHOR BOLTS/ DOWEL BARS

The liquid components part A and B are mixed first for 2 minutes. Then part C filler I added last. Mechanical mixing using an electric drill fitted with a paddle running at 200-300 RPM should be employed. Mix for 5 minutes until aggregate is coated then place immediately.

INSTALLATION

The mixed grout is simply poured directly into the anchor bolt pockets just slightly above the final level. When embedding dowels, calculate the volume of grout required to fill a hole. Then simply pour the required amount of grout into the hole. Next, press the dowel in to the hole with slight twisting. Fill any remaining unfilled portion with the grout. In some cases, plastic spacers may be necessary to center the dowel.

CLEANING

The grout can be removed/ cleaned off from equipment, tools while still wet with ISOKLEEN.

SHELF LIFE

Twelve months from date of manufacture stored in dry, cool environment below 32⁰ Celsius.

PACKING

ISOPOX GROUT-LE is packed in 7 liter & 15 liter kits (Parts A, B & C).

HEALTH AND SAFETY

Epoxy resin and hardener are considered skin irritants. Users are advised to wear rubber hand gloves, eye goggles and coveralls when using epoxy. If accidentally spilled on the skin, wash immediately with water and soap. If accidentally spilled on the eyes, wash with plenty of water and seek medical attention immediately. Refer to MSDS for more information.

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Technical information, data are to be considered as typical values and not sales specification. Actual measured values may vary due to factors beyond our control. Indications concerning function and application of the products are empirical. Although the information is believed to be accurate, there is no warranty by ISOLA. None of the recommendations becomes part of the warranted quality of the products. Due to the fact that the conditions of individual use are beyond ISOLA's direct and continuous control, ISOLA disclaims all responsibility in connection with the use of its products and does not warrant against any loss direct or consequential

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