

CAT. No. GRT-05-2010

ISOPOX GR 95

Thixotropic Anchoring Grout

ISOPOX GR 95 is a very rapid strength gain, thixotropic, epoxy-based grout. It is a 100% solids, three-component system carefully formulated to provide longer workability time but very high strength gain. It provides superior bond strength to concrete and steel and has excellent chemical, creep and impact resistance.

ADVANTAGES

- Provides 60-100 minutes gel time allowing sufficient placement time especially for small holes.
- Very rapid strength gain. Achieves 50 N/sq.mm compressive strength in 6 hours and ultimate strength of 95 N/sq.mm in 24 hours. Quick turnaround time.
- Excellent resistance to chemicals, vibrations and impact.
- Non-shrink, prepacked ready to mix at site.
- Superior bond to dry, damp concrete and smooth bolt or dowel.
- Waterproof. Effectively prevents steel bolts from corrosion.
- Thixotropic. Minimizes flow of grout out of the hole.

USES

ISOPOX GR 95 is especially formulated for anchoring or embedding bolts, dowels or steel bars on overhead or horizontal holes in concrete, masonry or brickworks. When grouting on vertical holes, use ISOPOX GROUT (Standard or LE).

TYPICAL PROPERTIES

- | | |
|---|---|
| 1. Compressive Strength (50 x 50 mm Cube) | |
| - 6 Hours | 50N/sq.mm |
| - 8 Hours | 70N/sq.mm |
| - 24 Hours | 95N/sq.mm |
| 2. Flexural strength @ 24 hours | 35N/sq.mm |
| 3. Splitting tensile strength | 33N/sq.mm |
| 4. Pot life (2-liter mass)- | |
| - 25° C | 100 minutes |
| - 35° C | 60 minutes |
| - 45° C | 30 minutes |
| 5. Touch dry time at 35° C | 3-4 hours |
| (Note: Tests for mechanical properties were conducted at 25°celsius ambient temperature.) | |
| 6. Chemical resistance | Excellent resistance to acid, alkalies, petrol fresh and sea water (consult ISOLA for specific list.) |
| 7. Bond strength to concrete | Greater than cohesive strength of concrete (Typical concrete = 3N/sq.mm) |
| 8. Creep Property | Not affected at operating temperature not more than 80° Celsius. |

DIRECTION FOR USE

1. ANCHOR BOLT/ DOWEL BARS

Should be degreased, power-wire brushed or other suitable mechanical means to achieve a bright material surface.

2. HOLES

Dry filled holes shall be cleaned of loose dust and debris. Wet drilled holes shall be cleaned of drilled slurry. Formed holes should preferably be inverse V configuration. If formed holes have parallel sides, this should be scarified and roughened and laitance removed. Free standing water should be removed. In general, the hole should be rough-sided

and entirely free of dust and dirt which might affect proper bond.

3. MIXING

The part A and B liquid components are mixed first. Then part C filler is added last. Mechanical mixing using an electric drill fitted with a paddle running at 200-300RPM is recommended. Mix for 3-5 minutes until uniform in color.

4. INSTALLATION

The mixed grout is rammed in place using a piece of round metal slightly less in diameter than the hole. The anchor bar or dowels is then pressed into the hole. Light hammering and twisting will ensure good adhesion. The bolt or bar should be left undisturbed in the required position until it has hardened.

CLEANING

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

HEALTH AND SAFETY

Some people are sensitive to epoxy resins. Users are advised to wear rubber and hand gloves, eye goggles and coveralls when using epoxy resins. If accidentally spilled on the skin, wash immediately with soap and water. If accidentally spilled on the eyes wash with plenty of water and seek medical attention. ISOKLEEN contains flammable solvent and should be kept away from open flames or direct heat. For more information, refer to MSDS.

PACKING / COLOR

ISOPOX GR 95 is packed in 2- liter kit parts A, B and C. Available in gray color only.

SHELF LIFE

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

Revised: 15.01.2023

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

ISOLA SOLUTIONS W.L.L

P.O. Box 530, Manama, Kingdom of Bahrain, Tel: 17784777, Fax:17911422, Email: isola@hajihassan.com, web: www.isolasolutions.com

An ISO 9001: 2015 Certified Company