

CAT. NO. CONREP-05-2010

ISOPOX OH

High Build Epoxy Repair Mortar

ISOPOX OH is a three component, trowellable, high build epoxy repair mortar. It is a solvent-free system consisting of epoxy resin, amine hardener and specially graded quartz fillers. This system is characterized with high chemical and abrasion resistance and specially suited for repair of vertical and overhead concrete structures up to 25mm thick.

USES

ISOPOX OH is used whenever high mechanical/ chemical resistance and permanent repair to spalled or deteriorated concrete are required-soffits, columns, lintels, underside of beams and roof slabs, tank and pipe linings, etc..

ADVANTAGES

- Dense, impermeable, water proof surface.
- Excellent chemical and abrasion resistance.
- High build for overhead and vertical repair up to 25 mm thick.
- High early strength gain.
- Low exotherm, Extended pot life and working time.
- Excellent adhesion and cure under damp conditions.
- Factory pre-weighed. Ready to mix at site.

SPECIFICATION

ISOPOX OH resin and hardener components complies with the requirements of ASTM C881 Type 3 and 4, Grade 2, Class B, C, D, E and F.

TYPICAL PROPERTIES

- Compressive Strength, 50 x 50 mm cube ASTM C 109;
 - 24 hours 60 N/ sq. mm
 - 3 days 80 N/ sq.mm
- Tensile strength @ 3 days, ASTM D638 14 N/ sq.mm
- Flexural strength 23 days. ASTM C580 25 N/ sq.mm
- Coefficient of expansion ASTM C 531, In./ in./F 16 x 10⁻⁶
- Volume change, ASTM C 827 0.00%
- Water absorption, ASTM C 413 0.20%
- Application temperature 5 – 45° C
- Pot Life @ - 25° C 90 Minutes
 - 35° C 45 Minutes
 - 45° C 20 Minutes
- Initial Hardness 3 – 4 hours
- Chemical Resistance Excellent to very good resistance to dilute acids, alkalis, grease, oil, petrol etc. (Consult ISOLA for detailed list)

DIRECTIONS FOR USE

A. SURFACE PREPARATION

Outline and mark the area to be repaired using a chalk or temporary marker. Enlarge the area beyond the initial size to ensure that any weak or questionable concrete is removed. If rebar is exposed, chip concrete behind the rebar to create a 15mm gap. Finally, clean the concrete using high pressure water jet and allow to dry. Remove all traces of rust from the

rebar by grit blasting or rotary power wire brushing to near white as possible. Immediately after cleaning, apply EATRUST on to the full circumference of the rebar and allow to dry. If section of the rebar has been reduced by corrosion, replacement may be necessary.

B. PRIMING

Use ISOPRIME 30-S for priming concrete. Add the entire contents of Part B hardener to the Part A resin and mix manually for 3 minutes. Apply ISOPRIME 30-S by brush onto the prepared substrate.

C. MIXING

ISOPOX OH comes in 3-component ready to mix pack. Under no circumstances should part mixing be allowed. First, mix the two liquid components (A and B) for 3 minutes, then transfer to a clean suitable mixing container. Add part C slowly while simultaneously mixing with a slow speed drill fitted with a paddle, mix for 5 minutes until uniform in consistency and all the fillers are coated. Apply immediately.

D. PATCHING

For vertical placement, apply ISOPOX OH by troweling the material firmly against the substrate working from the bottom going up. Be sure to fill the backside of any reinforcement. For deep patches more than 25 mm, apply the mortar in layers allowing each layer to stiffen somewhat before proceeding with subsequent layers. Each layer should be cross cut and re-primed. For overhead work, simply trowel a 10 mm thin layer of ISOPOX OH. Build up in 10mm thin layers. Cross-cut and reprime each preceding layer. Always work from the outer edge going to the center. Final layer can be finished with steel trowel lightly moistened with ISOKLEEN. (Note: Application thickness achievable is dependent on substrate geometry. If applied too thick or improperly compacted, the mortar may sag. If this occurs, the mortar should be removed completely and re-applied at a reduced thickness.

For tank or pipe linings, 3 mm thick mortar is the suggested minimum. For horizontal repairs subject to wheel traffic, ISOPOX EC or ISOPOX 100 is recommended.

CLEANING

Mortar can be cleaned off from tools and equipment while still wet using ISOKLEEN.

FIRE HAZARD

ISOPRIME 30-S, EATRUST and ISOKLEEN contains flammable solvent. Keep away from open flames or direct heat. Always provide adequate ventilation.

PACKING/ SHELF LIFE

ISOPOX OH is available in 8 liter pack parts A, B and C. Shelf life is twelve months from date of manufacture stored below 30° Celsius.

HEALTH/ SAFETY

Epoxy systems are considered skin irritants. As with all chemicals, users are always advised to use protective clothing eye goggles, and rubber hand gloves. Avoid inhalation of vapors. If accidentally spilled on the skin, wash immediately with water and soap. If accidentally spilled on the eyes, wash immediately with water and seek medical attention. 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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