MAKPHALT
Protecting Nation's Infrastructure
by M.K. PETRO PRODUCTS

MAK EPOXY GROUT LV

Description :

Mak Epoxy Grout LV is a two components (Component A –Resin, and Component B - Hardener) solvent free low viscosity free flowing, fast curing epoxy resin system.

Uses :

As an injection resin with good adhesion to dry concrete, mortar, stone, steel and wood. To fill and seal voids and cracksin structures such as bridges and other civil engineering buildings, industrial and residential buildings, e.g. columns, beams, foundations, walls, floors and water retaining structures.

Advantages :

Designed especially for pressure injection into concrete for carrying structural repairs. Due to its low viscosity it can be injected into extremely fine cracks also. The cured resin possesses high mechanical strength, excellent adhesion, practically no shrinkage and chemical resistance. Fine cracks, joints and small voids can be successfully sealed with Mak Epoxy Grout LV. Although Mak Epoxy Grout LV has a very high strength, the cured material is not brittle and remains a slight flexible in nature.

Safety :

Wear hand gloves, safety shoes and safety goggles while using and handling the product.

In case eyes or mouth are affected wash with plenty of clean water and seek medical treatment immediately

Shelf Life and storage :

12 months from the date of manufacturing when stored in un-opened, original sealed and dry condition at a temperature range from +5^{o}C to 40^{o}C

Packing :

3, 6 kg, Pack- A (Resin):2, 4 kg, Pack-B (Hardener):1, 2kg

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Method of application :

- **Surface Preparation**

The area to be treated should be properly cleaned to remove dust, laitance, grease, fungus etc. Injection nipples are fixed in a square grid maximum 500 to 800 mm c/c depending on the cracks and nature of concrete. If required for effective treatment, the grid may be reduced. Before the injection starts all cracks and crevices are to be sealed with Mak Epoxy Grout LV mortar (Resin- 2part, Hardener -1 part and fine silica sand 14 to 16 parts) or any other suitable quick setting mortar. This mortar can also be used for surface sealing for other porous areas

- **Mixing**

Mix the entire component - B (Hardener) with Component – A (Resin). Mix for 2-3 minutes to uniform colour without any streak using a drill and paddle (speed approx. 250 - 400 R.P.M.) mixer so as to avoid any entrapped air. Mix only sufficient materials for immediate requirements. 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.

- **Application**

In case of application by injection method, the grout mixture should be pumped by a positive displacement plunger type pump. Inject at slow and even pressure through the injecting nipples till refusal or when the grout oozes out from the nipple immediately adjacent to or above the one being injected. The mixed material can also be applied by simple pouring the material through the pockets or repairable cracks or both the surfaces to be joined. The excess material must be removed with a sharp scraper or concrete finishing tools to a smooth and flat finish. In case of application (as concrete sealer) by brush or roller, the mixed mixture should be painted (by a brush or roller) for minimum two coats. The second coat of painting will be done after proper air curing of first coat. Preferably it should be done after 8 hoursof application of first coat.

Precautions :

Store the material in shaded cool place and keep it away from fire and any heated body. Clean all tools with MEK or any standard solvent before polymerization starts. Mix only sufficient materials for immediate requirements. 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.
Should not be mixed multiple packs at a time. This may result drastic reduction of pot life and material may gel quickly before injection process.

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Technical Specifications:

Color of mixed products	**Light to Dark Amber**
Mix Ratio by wt. Part A:B	2 : 1
Pot life at 27°C , minutes	40
Relative Density of mixed material, 30°C	1.09
Viscosity, cps at 30°C	270
Compressive Strength, N/mm2 , 24 hours, 30°C	>53
Compressive Strength, N/mm2,7 days, 30°C	> 75
Flexural Strength, N/mm2, 7days, 30°C	13
Chemical Resistance, Inorganic alkali and acid solution (10%)	No change
Consumption per 6 kg pack	4.6 - 4.8 Litres

Important Note :

Makphalt products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst Makphalt endeavors to ensure that any advice, recommendation specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products whether or not in accordance with any advice, specification, recommendation or information given by it.

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