

ECMAGROUT 305

Low Viscous, Solvent Free Epoxy for Injection Grouting

Description

ECMAGROUT 305 is a two-component, low viscosity, high strength, injectable epoxy (comprised of resin and hardener) designed to repair & seal concrete cracks, honeycombs, voids and strengthen the concrete structures.

Areas of Application

ECMAGROUT 305 is an ideal low viscosity product for crack repairs, rehabilitation of structures showing hairline cracks, to seal voids, honeycombs and cavities in concrete structures like roof slabs, beams, columns, walls, and other structures to make them structurally sound.

Advantages

- Low viscosity - it can be injected in to very fine cracks & voids
- Solvent Free
- Self-resin curing process – faster strength development
- High Strength – suitable even under heavy loads & stresses
- Excellent adhesion – Good bonding with concrete and other substrates
- Non-shrink - No loss of concrete surface contact
- Chemical resistance with stands most chemicals, acid and alkalis.
- Usable at Low Temperature

Technical Specification

Appearance& Physical State	Pack A- Clear Liquid & Pack B- Amber Liquid
Mixing Ratio	Pack A: Pack B- 4:1
Mixed Density at 30 °C	1.075±0.02
Pot Life, at 30 °C	>45 Minutes
Viscosity, at 30 °C	< 250 cps
Compressive Strength at 24 Hrs N/mm ² 27 °C	>50
Compressive Strength at 7 Days N/mm ² 27 °C	>70
Initial Cure at 27 °C	Over Night
Full Cured at 27 °C	7 Days
Flexural Strength at 7 Days N/mm ² 27 °C	>15
Consumption Kg/m ³	1075

Application Instruction

Surface Preparation: All surfaces must be thoroughly cleaned by a wire brush or other mechanical means to remove all dust, laitance or debris. The surface must also be free from oil, grease, wax or any other form of foreign matter which might affect adhesion. Injection holes of 8 - 10mm diameter shall be drilled at desired gaps along the crack length or in a grid pattern while grouting of voids in concrete. The holes shall be cleaned to remove all dust and loose material by blowing compressed air. Suitable injection nipples of GI/PVC shall be fixed in the holes using an epoxy putty and the cracks shall also be sealed with this putty.

Mixing: Mix entire quantity of ECMAGROUT 305 Part B with Part A and mix at slowly speed with paddle or drill mix at around (200-300 rpm.) and keep material for 3 to 5 minutes to reduce entrapped air.

Application: To ensure the product is mixed properly through the static mixer, always gun out a small amount of resin prior to attaching the outlet end to the flange. 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. Mixed material also can use as simple pouring process to bond the surface with flat finish. The excess material must remove from machine and clean properly by Solvent immediate after application.

Precautions

- Mix minimum and sufficient quantity of ECMAGROUT 305 for immediate requirement only.
- While mixing ECMAGROUT 305, a temperature rise will occur due to exothermic reaction. It will depend on volume to surface ratio, the ambient temperature, etc.
- Avoid High Speed mixing and after mixing keep material 3- 5 minutes for reducing entrapped air.
- Clean all equipment properly immediate after application.
- Do not use any solvent at the time of mixing

Packaging

Pack A- 2 kg, Pack B -0.5 Kg

Shelf Life

12 Months in original unopened sealed condition.

Storage & Handling

Material should be stored in Cool and Dry shade. Also protect it from direct sunlight, high temperatures and fire. Please avoid stacking of containers and handle with care during transport.

Safety Precautions

Wear all PPE's at the of Application like Safety boot, Safety Goggle, Hand Gloves, Mask and avoided with contact of Skin and Eyes. Any direct skin contamination with the hardeners should be washed off immediately with soap and water.

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