

Mahagrout[®] Lvep

Low Viscosity Epoxy Injection Grout

Description

Mahagrout LVEP is a two pack epoxy resin system with special properties in built to suit for injection grouting and for granting gap widths of 0.25 to 10 mm.

Features / Advantages

- Excellent flow-ability which is required for an injection grouting.
- Both early and ultimate strengths are high.
- It has a good chemical resistance.
- It is solvent free epoxy resin system. It takes care of the shrinkage problem.
- It is non-shrink nature helps to maintain strong bond with contact surface.

Typical Application

- Can be applied in crack injection and for filling cold joints.
- For filling base plates and bolt pockets with gaps less than 10 mm.
- It is an ideal product for repairs, rehabilitation of structure showing hair line cracks (Rehabilitate cracked load bearing elements of bridges, girders, columns, beams etc.)
- To fill up cracks in roof slabs and other areas to make them waterproof.

Technical Information

PROPERTIES	STANDARD	SPECIFICATION
Appearance Part I		Clear Liquid
Appearance Part II		Light Yellow Liquid
Mixing Ratio		75:25 by weight
Pot life at 25°C		30 to 35 minutes
Setting time at 25°C		4 to 5 hrs
Curing time at 25°C		24 hrs
Compressive strength N/mm ²	ASTM-C 881-78, Type 3, grade 1, class B or C	> 70
Flexural strength N/mm ²		> 55
Tensile strength N/mm ²		> 32

Methods of Application

Surface Preparation

- The crack area to be waterproofed must be sound.
- For aggressive leaks, prior to the injection, the cracks can be sealed using Rhino Plug.
- The crack that needs to be treated is to be studied in detail for wall thickness and distance from the crack where boreholes need to be drilled.
- Holes are drilled on either side along the course of the crack at a distance of 30 cm center to center.
- In most cases, the boreholes need to be drilled at an angle of 45° into the wall and towards the crack to ensure that the borehole intercepts the crack beyond the second half of the wall thickness.
- Injection packers are inserted into the holes and screwed tightly in place. The injection process is preferably done from bottom to top for vertical surfaces.
- The diameter of the drill holes depends on the type of injection packers chosen.

Mixing

- The Mahagrout LVEP component A & B is mixed in the required mixing ratio of 75:25 by weight.
- The component B is added to the component A & mix it continuously by using a slowly rotating electrical mixer for 2 to 3 minutes.
- This is then transferred to a fresh, clean and dry container and mixed for a further 3 minutes.
- The material must be mixed until it is streak free and homogeneous in appearance and consistency. The mixed Mahagrout LVEP is now ready to be charged into the injection equipment.

Application

- Inject the ready material by using conventional injection pumps.
- All care should be taken to see that the mixed material to be injected well before the given pot life.
- After the application of Mahagrout LVEP, remove the packers & seal the drilled hole permanently by using Rhino plug.

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Packing

1kg & 5kg



Storage and Shelf life

Store in a cool & dry place under shed away from heat. Shelf life is One year in original unopened conditions.

Protect the material against moisture and direct sunlight.

Storage temperature: 20°C to 30°C Products should remain in their original, unopened containers.



Consumption

1.0 kg material is required to fill up 1000 cc volume gap.



Cleaning of Tools & Equipments

Tools and equipment should be cleaned with suitable solvent immediately after use. Do not use the solvent for thinning except where a sealing coat is required.

Ecology, Health and Safety

Health & Safety instructions, all chemicals should not come in contact with skin and eyes or be swallowed. Protective gloves and goggles should be worn. If contact with skin occurs, wash well with soap and water.

Eye contamination should be washed thoroughly with clean water and medical advice sought.

If swallowed seek medical attention immediately. Do not induce vomiting.

Disclaimer

The technical data contained herein is based on our present knowledge and experience and we cannot be held liable for any errors, inaccuracies, omissions or editorial failings that result from technological changes or research between the date of issue of this document and the date the product is acquired. Before using the product, the user should carry out any necessary tests in order to ensure that the product is suitable for the intended application. Moreover, all users should contact the seller or the manufacturer of the product for additional technical information concerning its use if they think that the information in their possession needs to be clarified in any way, whether for normal use or a specific application of our product.

Our guarantee applies within the context of the statutory regulations and provisions in force, current professional standards and in accordance with the stipulations set out in our general sales conditions.

The information detailed in the present technical data sheet is given by way of indication and is not exhaustive. The same applies to any information provided verbally by telephone to any prospective or existing customer.



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