EP GROUT MV

TECHNICAL DATA SHEET

LOW VISCOUS EPOXY RESIN INJECTION GROUT

Description

EP GROUT MV is a two-part epoxy resin system for grouting gaps ranging from 0.5 mm to 10 mm. It is a two-part system consisting of a base and hardener.

Uses

EP GROUT MV is developed as a high ultimate strength and low viscous injectable epoxy resinous grout to fill cracks, honeycombs and cavities of high strength concrete structures.

- This is the most ideal product for repairs and rehabilitation of structures showing hair line cracks.
- It is used to fill up Cracks in roof slabs and other areas to make them structurally sound.
- Low viscosity - can be injected into cracks and honey combs to strengthen structural members having high density.

Advantages

Low viscosity allows to penetration into finest cracks

- Formulated for hot climates
- Low creep characteristics
- High compressive, tensile and flexural strengths
- Fast, convenient pumping
- Withstands a wide range of chemicals
- Suitable for structure repairs,
- Adheres to concrete with no loss of bond

Technical Data

Mixed density @ 27°C	Approx 1.04 gm/cc
Pot life	120minutes @ 20°C 60 minutes @ 35°C
Mixed viscosity	Approx 1 Poise
Compressive strength @ 30°C (IS 9162) 3 days 7 days	 Approx 40N/mm2 Approx 70N/mm2
Tensile strength:7 days (IS 9162)	24Nmm2
Flexural strength :7 days (IS 9162)	55N/mm2

Chemical resistance - EP GROUT MV is resistant to oil, grease, fats, most chemicals, mild acids and alkalis, fresh and sea water. Our representative shall be contacted when exposure to solvent or concentrated chemicals is anticipated.

Exotherm - All epoxy products will develop a temperature rise on mixing. Its extent will be a function of the volume to surface ratio, the ambient temperature as well as the mass and thermal conductivity of the surrounding materials. Our representative shall be contacted for specific data.

Application information

Surface preparation

The area to be injected shall be cleaned to remove all loose material, laitence, grease and other deposits.

Drilling injection holes

Injection holes of 8 - 10mm dia shall be drilled at fixed intervals along the crack length or in a grid pattern in case of grouting of voids in concrete.

The holes shall be cleaned to remove all dust and loose material by blowing compressed air

Fixing nipples

Suitable injection nipples of GI/PVC shall be fixed in these holes using an epoxy sealing putty. The cracks shall also be sealed with this product.

The two components of EP GROUT MV injection grout shall be individually stirred and then mixed and injected into the nipples through a suitable injection pump exerting a uniform pressure. Injection shall be carried out till it flows from the adjacent nipple and then stopped. The same operation shall be carried out for the next nipple.

After all the holes are completed, the nipples are removed next day and the holes shall be sealed with a high strength mortar removed immediately with a resin removing cream, followed by soap and water. Solvent should not be used. In case of contact with eyes, immediate rinsing with plenty of clean water is suggested and medical attention shall be sought immediately- Vomiting should not be induced.

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Consumption

Approx. 1.04 kg of material is required for filling up of 1000cc 1 letter (depending on the porosity of the substrate.)

Standards

EP GROUT MV will meets the requirements of the ASTM C 881, Type I, II, IV, Grade-II and class C.E and F.

Packaging

5 Kg of composite pack (Base + Hardener= 4+1))

Storage and Shelf Life

12 Months if sealed pack and stored under cool and dry shaded area.

Cleaning

All tools and equipment should be cleaned immediately after use with Xylene

Safety precautions

User must read Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

Note

All Technical Data Sheets of FIRSTCHOICE SPECIALITY CHEMICALS are updated on regular basis; it is the user's responsibility, to obtain the most recent issue. Field services where provided, does not constitute supervisory responsibility, for additional information contact our local representative.

Disclaimer

Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the competence of any labour involved in the application are beyond our control.