



SILKON
ADDITIVES INDIA PVT LTD

Lapkon LV

Lapkon LV is a high strength, low viscous epoxy injection grout which is developed as an ultimate high strength and low viscous injectable epoxy resin grout to fill the crack, honeycombs and cavity of high strength concrete structure.

Product features and advantages

- Low viscosity - can be injected into cracks and honeycombs of high strength structural members having high density.
- High mechanical strength - Performs even under heavy loads and stresses.
- Excellent adhesive strength - Good bonding with substrate
- Two part system - Easy to mix and handle
- Non shrink - Complete filling of voids and cracks
- Chemical resistant - Can be used in aggressive environments.

Lapkon LV is a two part system comprising of liquid base and hardener. It is designed for injecting into cracks, honeycombs and construction joints ranging from 0.25mm to 10mm.

Technical Support

Silkon offers a comprehensive range of high performance, high quality concrete repair and construction products. In addition, Silkon offers technical support service to specifiers, end-users and contractors, as well as on-site technical assistance in locations all over the country.

Properties

The following results are typical for the hardened grout at 30°C.

Density (kg/m³) : approx. 1050

Compressive strength (N/mm ²)	1D	3D	7D
BS 6319 Part 2	41	68	82

Tensile strength (N/mm ²)			
BS 6319 Part 7 (7 days)	-	-	12

Flexural strength (N/mm ²)			
BS6319 part 3 (7 days)	-	-	30

Pot life : 45 minutes @ 27°C

Chemical resistance

Lapkon is resistant to oil, grease, fats, most chemicals, mild acids and alkalis, fresh and sea water. Silkon shall be contacted when exposure to solvent or concentrated chemicals is anticipated.

Exothermic reaction

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.

Application Methodology:

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 incase 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 Lapkon 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 fl own 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

Packing:

Lapkon LV : 1Liter Pack

Storage

The storage, handling and placement of the grout must be in strict accordance with the manufacturer's instructions.

Shelf life

12 months in unopened container under normal warehouse condition below 35°C.



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Health and Safety

Lapkon LV contains resins which may cause sensitisation when comes in contact with skin. Contact with skin and eyes and inhalation of vapour shall be avoided. Use of suitable protective clothing, gloves and eye/face protection is recommended. Barrier creams provide additional skin protection. Should accidental skin contact occur, it shall be 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.