



ReCon LVE

Low Viscosity Epoxy Resin for Crack Injection

DESCRIPTION ReCon LVE is a two component, low viscosity, moisture insensitive epoxy resin based injection system.

USES ReCon LVE can be used for sealing cavities and cracks in structural members such as columns, beams, foundations, decks and water retaining structures etc. It can be used for bolt anchors where the gap between bolt and pocket is less than 4 mm. While forming an effective barrier against water infiltration, it also bonds the concrete sections together restoring the original structural strength and integrity.

ADVANTAGES

- Low viscosity ensures deep penetration into fine cracks
- Improves bonding between two concrete surfaces and between concrete and steel
- Suitable for filling cracks in brick and block masonry
- Can be applied even in damp conditions
- Non-shrink to ensure complete filling of cracks

TYPICAL PROPERTIES at 25°C

PROPERTY	TEST METHOD	VALUE
Component	-	Two: Part A- Base Part B- Hardener
Mixed Form	-	Liquid
Colour	-	Yellowish
Viscosity	-	3.0 poise +/- 0.5
Potlife	-	70 +/- 10 mins
Compressive Strength	BS 6319-2	70 N/mm ² at 7 days
Tensile Strength	BS 6319-7	25 N/mm ² at 7 days
Bond Strength	ASTM D4541	> 2.5 N/mm ² at 7 days (Concrete failure)
Solid Content	ASTM D1475	100% (solvent free)
Application Temperature	-	+5°C to +40°C

SURFACE PREPARATION Surfaces should be dry, clean, free from standing water, grease, curing compounds, mould oils and all loosely adhering particles. Cement latence should be removed by mechanical means. Cracks should be opened by using cutting discs with straight edges. Loose particles and dust should be removed from the cracks using suitable air blowers.

MIXING Entire contents of hardener is emptied into the base container and mixed thoroughly till a homogeneous mix is obtained. Slow speed drill machine with mixing paddle should be used for mixing. Mix for at least 2-3 minutes.

APPLICATION Injection packers are fixed into the pre-drilled holes. Spacing of the packers should



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depend on the width and depth of the cracks. Packers are placed in intervals to ensure that the material fills in cracks and cavities completely. **ReCon FCE** is used to seal the cracks between the packers on both sides of the through cracks and also for fixing of the packers. Allow **ReCon FCE** to harden for at least 8 hours before proceeding to inject **ReCon LVE**. It can also be filled into horizontal cracks by gravity.

For such applications, make sure that a lean cement sand bed is created all along the crack. Pour the material in between the sand bed and allow the material to flow inside the cracks. Excess material on the surface can be removed by scrapping.

PACK SIZE 1.5 ltr and 6 ltr set

LIMITATIONS **ReCon LVE** should not be used in cracks which are likely to move. At higher temperatures the pot life of the material will be considerably lower. It should not be used if there is running water during application or before setting of material. Part mixing of material should be avoided.

GENERAL INFORMATION	Shelf Life	12 months from date of manufacture when stored under warehouse conditions in original unopened packing. Extreme temperature / humidity may reduce shelf life.
	Cleaning	Clean all equipments and tools with Conmix Cleaner . Clean immediately after use. Hardened material can be removed mechanically.

HEALTH and SAFETY	PPE's	Gloves, goggles and suitable mask must be worn.
	Precautions	Contact with skin, eyes, etc. must be avoided. If swallowed seek medical attention immediately.
	Hazard	Regarded as non-hazardous for transportation
	Disposal	Do not reuse containers. To be disposed off as per local rules and regulations.
	Additional Information	Refer MSDS. (Available on request.)

TECHNICAL SERVICE **CONMIX Technical Services** are available on request for onsite support to assist in the correct use of its products.

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