

# HIND ERS 21(LV)

LOW VISCOUS HIGH STRENGTH INJECTABLE EPOXY GROUT



## DESCRIPTION

**Hind ERS 21 (LV)** is a two component solvent free low viscous fast curing epoxy resin system comprising of component A and component B. It is designed especially for pressure injection into concrete for carrying structural repairs. **Hind ERS 21 (LV)** is supplied in pre-measured quantities. The system conforms to **ASTM C-881-2002, Type - 4, Grade 1, Class C**.

## USES

**Hind ERS 21 (LV)** is ready to use for pressure injection into concrete for structural repairs. Due to low viscosity, non-shrink, free flowing injectable and pourable system which find various usage in sealing of crack, expansion joint, floor joint, pavement joint, etc.

## ADVANTAGES

**Hind ERS 21 (LV) is very useful in concrete such as**

- Due to low viscosity it can be injected into extremely fine cracks and small cavities.
- It has high compressive strength, tensile and flexural strength.
- Excellent bonding and adhesion.
- No shrinkage during curing.
- Like all epoxy resin system it has high chemical resistance.
- Cured material is not brittle and remains slightly flexible.
- Reduce thermal expansion coefficient thus improves thermal conductivity.

## APPLICATION

### Surface Preparation:

Before application surface preparation is important, surface should be cleaned, dry, free from loose particles, oil, grease or other foreign materials, injection nipples are fixed in a square grid maximum 500 to 800 mm c/c depending on the cracks and nature of concrete, if required for effective treatment, the grid may be reduced. Before the injection starts all cracks and crevices are to be sealed with **Hind ERS 21 (LV)** mortar and surface sealing is to be done for other porous areas.

### Mixing:

Mix 1 part by wt of component B with 2 parts by wt of component A i.e. mixing ratio = Component A: Component B = 2:1 (by wt). Mix at least 5 minutes to uniform color without any streak using a drill and paddle mixed (speed 200 RPM) so as to avoid any entrapped air.

**Injection:** The grout mixture should be pumped by a positive displacement plunger type pump. Inject at slow and even pressure through the injecting nipples till refusal or when the grout oozes out from nipple immediately adjacent to or above the one being injected.

**Cleaning:** Clean all tools & equipment immediately after use with, Xylene, Toluene or suitable solvent.

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## PROPERTIES

Aspect	Pale Yellow
Mixed ratio	Comp A: Comp B = 2:1 (by wt)
Viscosity at 25°C (ASTM D 1084)	300 ±50 cps
Pot life	Approximately 45 minutes at 25°C
Density	1.07 to 1.1 kg/ lit (Mixed)
Compressive Strength at 25°C (ASTM D 695)	> 70 N/ mm <sup>2</sup> in 7 days.
Tensile strength at 25°C (ASTM D 638)	> 50 N/ mm <sup>2</sup> in 7 days.
Slant Shear Bond Strength (ASTM C 882)	> 10 MPa in 14 days.
Flexural Strength (BS 6319, Part 4)	55 MPa in 7 days
Shrinkage (ASTM C 881)	Practically no shrinkage.
Chemical resistance	Chemically resistant to wide range of chemicals and oils.
Full Curing Time	7 days at 25°C
Water absorption	< 1 %

## PACKING

3, 6 & 12 Kg Kit or as required.

## SHELF LIFE

Best before 12 months from the date of manufacture. Should be stored in a cool and dry place away from direct sunlight at temperature ranging between 15°C (Min.) and 25°C (Max.).

## HANDLING PRECAUTION

Hind ERS 21 (LV) is non-toxic but ingestion is to be avoided. Any splashes to the skin must be washed with water. If contact with eyes occurs, wash well immediately with water and seek medical advice.

## IMPORTANT NOTICE :

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