



HIND ERS 21(LV)

PRODUCT DATA SHEET

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.

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 ² in 7 days.
Tensile strength at 25 °C (ASTM D 638)	≥ 50 N/ mm ² 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 ⁰ 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 15⁰ C (Min.) and 25⁰ 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.

Note:

- **Hindcon Chemicals** maintains a team of technically trained professionals to provide full support to your problems in construction, and recommend the correct product to suite your specific requirements. Our authorized applicators can attend your site for application of the products.
- The content of the Technical datasheet are for general information and guideline. The result shown here are generated from our laboratory or from our site experiences.
- Quality of our products are maintained as per ISO9001:2008 recommendations and continuous researches. The behavior can change as per the prevailing conditions at the time of applications.
- Since **HINDCON CHEMICALS LIMITED** has no control over the use to which the users may put the material, it does not claim or warrant that in the user's particular circumstances, the result that the user will obtain from the product will be the same as those described in this communication or that the user will find the information or recommendations complete, accurate or useful. The client must test and ascertain the safety and fitness for the product for use.
- The right to change the properties of the products is reserved with us. The proprietary rights of third parties must be observed. All orders are accepted subject to the terms of sale and delivery. Users must always refer to the most recent issue of the latest Data Sheet for the product concerned, copies of which will be supplied on request.

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