



HIND ERS 212

PRODUCT DATA SHEET

THREE COMPONENT HIGH STRENGTH POURABLE / INJECTABLE EPOXY GROUT

DESCRIPTION

Hind ERS 212 is a three component solvent free, free flowing, non-shrinking fast curing epoxy resin system used for pourable into concrete for carrying out structural repairs. The system is insensitive to water and due to higher density it displaces the water thus making application on damp surface. The cured system possesses high mechanical strength, non-shrinking properties, excellent adhesion, and is chemical resistant typical of all epoxy resin system. Cracks and voids of any nature can be successfully sealed/ bonded with **Hind ERS 212**. Though it has high strength, the cured material does not become brittle and remains slight flexible. **Hind ERS 212** is manufactured in pre-measured quantities. Component A- Resin, Component B-Polyamide hardener and Component C- Special Aggregate (Graded Silica flour/sand).

ADVANTAGES

- Free flowing and non-shrink system.
- Resistance to acids and alkalis.
- Moisture insensitive
- Useful and helps rapid installation process with high strength.
- Very useful in sealing wider cracks

MIX RATIO

Component A - 2 parts by weight: Component B -1 parts by weight: Component C- 2 parts by weight.

APPLICATION

Preparation of Surface

The area to be treated should be properly cleaned by wire brush. Injection ports/nozzles are fixed at a regular spacing. The ports/nozzles to be sealed on the surface to prevent the grout from oozing out at the time of injection operation. It can be directly poured into wider cracks to fill it by gravity.

Mixing

Component-B Polyamide Hardener and Component –A Resin are mixed at first, then Component C Special Aggregate is slowly mixed well, so as not to entrap air into the product. Mixing is done for 2-3 minutes using a drill and paddle (maximum 200-300 R.P.M.). Only required quantity of material to be mixed for immediate use. The mixed material should be kept undisturbed for 2-3 minutes, so that if any entrapped air is there it escapes from the mix.

Injection

The grout mixture is pumped through the ports/nozzles fixed by means of positive displacement pump till there is refusal from the nozzle or the mixture comes out of the adjacent nozzle.

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

PROPERTIES

Aspect	Comp.A-Liquid, Comp.B -Liquid, Comp.C- Powder
Colour	Off white (Mixed material)
Density	1350 –1400 Kg/m ³ (Mixed material)
Mix Ratio	Comp.A : Comp.B : Comp C = 2:1:2 by weight
Working Time	40-45 minutes at 27 ⁰ C ±2 ⁰ C
Compressive Strength	Min 70N /mm ² + 2N/mm ² in 24 hours at 27 ⁰ C ±2 ⁰ C Min 100/mm ² ± 5N /mm ² in 7 days at 27 ⁰ C ±2 ⁰ C
Bond Strength	1.5-2N /mm ² in 7 days at 27 ⁰ C ±2 ⁰ C
Tensile Strength	14-17.5 N/mm ² in 7 days at 27 ⁰ C ±2 ⁰ C
Flexural Strength	25-35 N/mm ² in 7 days at 27 ⁰ C ±2 ⁰ C
Chemical Resistance	Is not affected by wide range of chemicals, oils etc.
Shrinkage	Non-shrink

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 2⁰ C (Min.) and 35⁰ C (Max.).

PACKING

5 Kg Kit or as required.

HANDLING PRECAUTION

Hind ERS 212 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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