

HIND ERS 3116

HIGH STRENGTH FAST CURING FLOWABLE EPOXY GROUT



DESCRIPTION

Hind ERS 3116 is a three component solvent free, fast curing, fillerised grout, based on modified epoxy resin which is formulated for use as a precision heavy duty chocking grout for carrying out structural repairs and engineering application. The cured resin possesses high mechanical strength, excellent adhesion, non-shrinking properties and is chemical resistant. **HIND ERS 3116** epoxy grout is supplied in pre-measured quantities according to the mixing proportion **Component A-Resin**, **Component B-Polyamide Hardener** and **Component C- Fillers (Inert type)**. On mixing of all the premeasured Components, it produces a high viscous flowable liquid grout suitable for 10-80mm gap/voids.

USES

- Fixing of Base plates, Insert plates, Foundation Bolts, Tie Bars.
- Anchoring hold down bolts and rail track.
- Fixing of Crane rails and anchoring heavy equipment.
- Grouting of Heavy machineries with high dynamic loads and vibration.
- In highly corrosive environment, where there is spillage of chemicals, oil and solvents and cement grout cannot be used.
- Grouting of production unit where time bound shut down is given for application so that production does not get affected.
- As a backing material for steel liner of machineries for ore crushing in areas like mine and quarries.

ADVANTAGES

- Fast curing.
- Fast gaining compressive and bond strength.
- Resistant to Vibration and Impact.
- Resistance to moisture and excellent chemical resistant.

APPLICATION

Surface Preparation

The area to be treated should be properly cleaned to make it free from dust, oil, laitance by wire brush or mechanically.

Mixing:

Add **Component A - Resin** to **Component C - Filler (Inert type)** and mix for **3-4 minutes** using **high speed drill machine (1000 rpm- 1500 rpm)** fitted with a **stirrer** until the entire quantity of filler get soaked in the Resin. Finally add **Component B - Polyamide Hardener** and mix for **2-3 minutes** to get the desired **flow/ consistency** before pouring.

Note: Grouting for thickness between 5-10 mm, it is recommended to use Component C - Filler (Inert type) lesser in quantity (Ratio: A:B:C = 3:1:9), (Ratio: A:B:C = 3:1:10) to get the desired flow of the mortar.

Curing

No wet curing is required. Air curing is sufficient for development of strength. **Hind ERS 3116** will be fully cured with maximum Compressive strength within 7 days at 27°C. At low temperature curing time and gaining of strength is retarded. The material will not be cured below 5°C.

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PROPERTIES

Aspect	Comp. A	Comp. B	Comp. C
	Grey Liquid	Thick Liquid	Powder
Mixing Ratio	3:1:16 parts by weight		
Density (Mixed)	1.80Kg/Ltr.		
Application Temperature	10°C - 40°C		
Compressive Strength at 27°C (ASTM C 579)	55- 65 N/mm ² after 6 hours		
	80- 90 N/mm ² after 1day		
	90- 95 N/mm ² after 3days		
	100-105 N/mm ² after 7days		
Tensile Strength at 27°C (BS 6319 Part 7)	12.5-14 N/mm ² in 7 days		
Flexural Strength at 27°C (ASTM C 580 Part 7)	26-28 N/mm ² in 7 days		
Bond Strength	> 2 N/mm ² (Concrete failure)		
Chemical Resistance	It is not affected by wide range of chemicals, oils etc.		
Pot Life at 27°C	45 mins		
Setting time at 27°C	80 mins		
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 2°C (Min.) and 35°C (Max.).

PACKING

20 Kg Kit or as required.

HANDLING PRECAUTION

Hind ERS 3116 is non-toxic and 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 :

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 behaviour 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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