

# HIND EP 21

HIGH STRENGTH EPOXY GROUT



## DESCRIPTION

**Hind EP 21** is a two component solvent free epoxy resin grout system comprising of premeasured **Component A (Resin)** and **Component B (Hardener)**. It is designed especially for grouting gap of **0.25mm -10 mm widths**.

## USES

**Hind EP 21** is a free flowing epoxy grout used for filling up gap under base plate and under plate in bridges, factory shed, rail track application for moving support of heavy cranes, turbine and other reciprocating machinery in dynamic load situations. The system possess the properties like high strength, non-shrink, free flowing and is pourable, hence it finds appropriate usages for all types of base plate grouting.

## ADVANTAGES

- It has high compressive strength, tensile and flexural strength.
- User friendly and recommended for full pack mixing and usage to achieve performance characteristics.
- Excellent bonding and adhesion.
- For filling up gaps of small height between Concrete & Base Plate.
- No shrinkage during curing.
- Like all epoxy resin system it has high chemical resistance.
- Reduce thermal expansion co efficient thus improves thermal conductivity.

## APPLICATION

**Base Plate Grouting:** If there is delay for fixing base plate, it is recommended that the underside and edges are primed with **Hind ERS 21 (P)** to prevent rusting and ensure a perfect bonding with **Hind EP 21**. Cleaning of all metals surface to a bright finish is to be done following **Swedish Standard SA 2½** or equivalent. **Hind ERS 21(P)** can be applied to all cleaned steel surface even they are damp.

### Formwork

**Hind EP 21** is a free flowing grout and the formwork to be used should be leak proof and this can be done by using rubber strip or sealing underneath portion of the formwork with mastic sealant. During application of **Hind EP 21**, a hydrostatic head is to be provided and to achieve free flow properties a feeding hopper is to be used.

### Under Plate Grouting

The unrestrained surface area of the grout to be kept to a minimum. It is advisable that the gap between the perimeter of the formwork and the plate edge must not exceed **75mm** on the side from where pouring is done and not more than 25mm from the opposite side. It is also to be ensured that the formwork is held tight to the plate edge from the flank sides. Air pressure holes to be kept for allowing ventilation of any isolated higher spots.

### Mixing:

Mix **1 part by Wt. of Component B (Hardener)** with **2 parts by Wt. of Component A (Resin)** i.e. **Mixing Ratio = Component A: Component B = 2:1 (by wt)**. Mix at least 2-3 minutes to achieve an uniform color. The entire material to be used within the pot life and stiffened material to be discarded. Small quantity material are recommended to be mixed as per requirements to avoid wastage.

### Cleaning:

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

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**Note :** Avoid using **Hind EP 21** at higher temperatures more than **35°C**, which will shorten the pot life of the mixed material and becomes difficult for pouring. For hot weather the following guidelines to be maintained, storing of material to be done in a cool place under controlled temperature. Avoid application during afternoon when the temperature is high. Mixing equipments are to be kept in a cool place and mixing to be done under shade in cooler conditions.

Aspect	Light Amber
Mixed ratio	<b>(Resin) Comp A: (Hardener) Comp B = 2:1 (by wt)</b>
Density	1050 to 1100 kg/ m <sup>3</sup>
Pot life	60 minutes at 25 + 2°C
	40 minutes at 35 + 2°C
Compressive strength at 25 + 2°C	59 N mm <sup>2</sup> in 1 day.
	67 N/ mm <sup>2</sup> in 3 days.
	95 N/ mm <sup>2</sup> in 7 day
Tensile strength at 25 + 2°C	27 N/ mm <sup>2</sup> in 7 days
Flexural strength at 25 + 2°C	65 N/ mm <sup>2</sup> in 7 days.
Shrinkage	Practically no shrinkage.
Chemical Resistance	Resistant to wide range of chemicals and oils.

### 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 2°C (Min.) and 35°C (Max.).

### HANDLING PRECAUTION

**Hind EP 21** 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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✉ contactus@hindcon.com  
☎ +91 33 24490839, 9830599113  
☎ +91 33 24490849  
📍 Kolkata, West Bengal, India

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