



## HIND PLAST EGA

### PRODUCT DATA SHEET

#### NON SHRINK EXPANDING GROUT ADMIXTURE

##### DESCRIPTION

**Hind Plast EGA** is an Expanding Grout Admixture for pressure injection grouting of cement milk into concrete and can also be admixed with cement used for concreting to prevent shrinkage of cement. It can also be added to cement sand mortar to compensate the drying shrinkage of cement.

##### USES

**Hind Plast EGA** can be used for Grouting in

- Pre-stressed cable ducts.
- Rock and soil anchoring.
- Bearing plates.
- Pre-placed aggregates.
- Tunnel lining.
- In underground structure, basement, tunnel, lift-wells, dams, water reservoir and other water retaining structure.
- Does not allow shrinkage of cement used in cement sand mortar.

##### ADVANTAGES

- Improved fluidity.
- Increased cohesion.
- Volume expansion in the wet state to develop non-shrink property.
- Chloride free – does not attack reinforcement or pre-stress cables

##### APPLICATION

The recommended dosage range is 0.5 to 0.6 kg. per 100 kgs. Cement. It is advisable to conduct trials to achieve optimum economical dose. Add directly to the dry cement then add water into the mixer and mix at least for 3 minutes. Sand may be added if required. For pre-stressed concrete work, where mechanical batching is carried out, a mixing time of 4 minutes with a w/c ratio of 0.36 – 0.40 has been found to give the best result. The most effective mixing sequence has proven to be water, cement and finally the admixture. When used as an admixture to compensate the drying shrinkage of cement in mortar the recommended dosage varies from 0.1% to 0.25% by weight of cement.

##### PROPERTIES

Form	Light Brown Powder
Bulk Density	0.8 ± 0.1 kg/ lit
Chloride Content	Nil as per <b>BS : 5075</b>
Compressive Strength	The mixing of <b>Hind Plast EGA</b> into cementitious grouts the plasticizing action allows water reduction of the water cement ratios of cementitious grouts and the flow properties is maintained. This enhances the improvement in strength and long term durability when cured under restraint.
Setting Time	On addition of <b>Hind Plast EGA</b> to cement grouts, the setting time of cement grout is not significantly altered.
Expansion	Adding <b>Hind Plast EGA</b> to cement based grouts, the controlled positive characteristics expansion in unset grout takes care of the plastic settlement measured as per <b>ASTM C 827</b> . An unrestrained expansion up to 4% is typical.
Expansion Time	15 minutes to 2 hours at 20 °C. this time may vary if temperature is above 20 °C

## SHELF LIFE

6 months from the date of manufacture in unopened condition. To be stored in a cool and dry covered space away from direct sunlight at a temperature ranging between 2<sup>0</sup> C to 50<sup>0</sup> C.

## PACKING

250gm , 1 & 20 Kg in HDPE Bag or as required.

## HANDLING PRECAUTION

**Hind Plast EGA** is non-toxic, non-inflammable and ingestion is to avoided. If contact with eyes occur, Immediately wash with water and seek medical advice.

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### 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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(AN ISO 9001: 2015 COMPANY)

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