

# HIND PLAST SUPER<sup>TM</sup> A

## PRODUCT DATA SHEET

### CHLORIDE FREE ACCELERATING, WATER REDUCING ADMIXTURE FOR CONCRETE

#### DESCRIPTION

**Hind Plast Super<sup>TM</sup> A** is light Straw/brown coloured liquid, totally free from chloride.

#### USES

To accelerate the setting time and early strength gain of cement concrete and mortar mixes without introduction of chloride ion (which is harmful for reinforcement causing corrosion/ rusting). Its water reducing character can be gainfully utilized for both early as well as ultimate strength. **Hind Plast Super<sup>TM</sup> A** conforms to **IS: 9103:1999** (Reaffirmed 2004) Edition 2.2 (2007-08), **ASTM C 494 Type C** and **BS 5075 Part I and II**

#### ADVANTAGES

- Chloride free, safe in prestressed and reinforcing concrete.
- Generates very high early strength in concrete.
- Its plasticizing action increases workability and/or increased strength.
- Particularly effective in low temperature concreting.

#### APPLICATION

The recommended dosage for standard mix concrete ranges from 0.2 to 1% by weight of cement in tropical temperature, higher than 25°C. For low temperature concreting (5°C to 25°C) the dosage ranges from 0.7 to 2% by weight of cement. Admixture is to be added directly into the mixer. For very high early strength, steam curing/ and increase of dosage is recommended, depending on site requirements. The optimum dosage is best determined by site trials with actual concrete mix.

#### PROPERTIES

Aspect	Light Straw/Pale brown Liquid
Specific Gravity	1.20 ± 0.04 at 27° C
pH	≥ 6
Chloride Content	Nil as per BS: 5075
Compatibility	All types cements. Not suitable for high Alumina cement (cement fondué)
Long term effect	Accelerated corrosion testing shows that the rebars remain protected even at five times the normal dose level of <b>Hind Plast Super<sup>TM</sup> A</b>

Typical Performance of <b>Hind Plast Super<sup>TM</sup> A</b>							
Grade of concrete <b>M 35</b>							<b>W/C 0.38</b>
Cement Content Kg/m <sup>3</sup>	Dosage of Admixture Kg/ 100 kg.	Initial Set. hrs.	Final Set. hrs.	Curing temperature °C	Compressive Strength -3 days N/mm <sup>2</sup>	Compressive strength 7 days N/mm <sup>2</sup>	Compressive strength 28 days N/mm <sup>2</sup>
400	Nil (Control)	14	19	5 - 10	17.5	26.5	36
	2.5 (Hind Plast Super A)	11	17		22.0	28.0	39.5
400	Nil	9	16	20 - 25	24.0	32.0	40
	2.0	6	14		30.0	34.0	44

## SHELF LIFE

12 months from the date of manufacture in unopened condition. Should be stored in a cool and dry place away from direct sunlight at temperature ranging between 2<sup>0</sup> C (Min.) and 50<sup>0</sup> C (Max.)

## PACKING

In 250 Kg. HDPE Container or as required.

## HANDLING PRECAUTION

**Hind Plast Super<sup>(TM)</sup> A** 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.

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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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