



HIND PLAST SUPERTM SCA

PRODUCT DATA SHEET

SELF COMPACTING HIGH PERFORMANCE SUPER PLASTICIZER BASED ON POLYCARBOXYLIC TECHNOLOGY

DESCRIPTION

Hind Plast SuperTM SCA is a new generation Superplasticizer for concrete based on Polycarboxylic Ether Polymer with long lateral chains. **Hind Plast SuperTM SCA** gets the cement to be dispersed to a greater extent and combines the properties to produce self compacting non-shrinkable concrete with high range water reduction and workability retentions. It is also helpful for the production of high performance concrete with high workability. It conforms to **IS: 9103: 1999 (Reaffirmed 2004) Edition 2.2 (2007-08)**, **ASTM C494, Type F & G**, **IS: 2645: 2003** and **EN-934-2 (2009)**

USES

Hind Plast SuperTM SCA is a high performance Superplasticizer which is suitable for concrete where high early and ultimate strengths are required. It has been developed for use in

- Self compacting concrete.
- Ready Mix Concrete.
- Concrete with extreme water reduction with excellent flowability with optimal cohesion.
- Pumped concrete.
- Pre-cast concrete.
- High performance and high strength concrete.
- Concrete requiring long workability and retention.
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ADVANTAGES

- Strong self compacting behavior.
- Water reduction up to 40%. Higher percentage of water reduction can be achieved depending on Mix Design.
- Develop early strength.
- Increase flexural strength.
- Reduces permeability.
- Reduced shrinkage and creep.
- Increase durability.
- Reduced rate of carbonation of the concrete.
- Improved adhesion to reinforcing and stressing steel.

APPLICATION

The optimum dosage of Hind Plast SuperTM SCA ranges from 0.2 to 1.0% by weight of cement. It is advisable to carry out the trial mixes to establish the exact dosage rate required. **Hind Plast Super SCA** is compatible with all types of cement. Hind Plast Super TM SCA is added to gauging water prior to its addition to wet aggregate cement mix

PROPERTIES

Aspect	Light Brown liquid.
Specific Gravity	1.08 ± 0.02
Chloride content	≤ 0.1 % by mass (Considered to be Nil)
pH	≥ 6
Alkali Content (Na ₂ O equivalent)	≤ 0.5 %
Corrosion behaviour	Contains component only EN 934-1: 2008 Annex A.1
Compressive Strength	Equal Consistence: 24hrs ≥ 140% 28 days ≥ 115% Equal w/c ratio: 28 days ≥ 90%
Water Reduction	≥ 12%
Air Content	Equal consistence: ≤ 2.0% Equal w/c ratio : ≤ 2.0%
Consistency	Increase : ≥ 120mm Retention: Comply Table 3.2

SHELF LIFE

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 50⁰ C (Max.)

PACKING

225 Kg. HDPE Containers or as required.

HANDLING PRECAUTION

Hind Plast Super^(TM) SCA 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. Overdosing of the material may cause delay in setting of the concrete.

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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