

Product Description

La HyperCast SC is a third generation superplasticizer specifically for Precast concrete. The unique mechanism of action of polycarboxylic ether present in La HyperCast SC greatly enhances the effectiveness of cement dispersion and thereby reducing the amount of water required for mixing.

La HyperCast SC is chloride-free and compatible with all types of cement.

At the very early stage of the mixing process, the PCEs are adsorbed by the cement granules, increasing their negative charge, thus causing electrostatic dispersion. But then, the side chain linked to the polymer backbone generates a steric hindrance that greatly enhances the ability of cement grains to disperse and remain separate. Steric hindrance provides a physical barrier along with the electrostatic barrier between the cement particles, resulting reduction in water content and further results in high strength of the concrete.

Standard

Conforms to IS:9103-1999 (reaffirmed 2004), Edition 2.2 (2007 – 2008), ASTM C494, Type F & G

Uses

La HyperCast SC facilitates extreme water reduction with the same time optimal cohesion. It's recommended specifically for precast concrete.

Technical Properties

Chemical Base	Aqueous solution of modified polycarboxylate
Form	Light Yellow Liquid
Specific Gravity	1.08 ± 0.02 (at 27°C ± 3°C)
Setting & Hardening	Sets very early with moderate dosage. There may be retarding effect on the setting time with high dosage.
Chloride Content	NIL.
Air Entrainment	May increase very marginally in high dosage
Compatibility	Can be used with all types of Portland and Slag cements including Microsilica, fly ash, GGBFS
pH	7±1

* The uniformity parameters like specific gravity, pH, chloride content etc. will vary for specific customer requirements and mix design. Please refer our MTC issued along with supply for specific details.

Advantages

- Increased durability
- Improved shrinkage and creep behaviour
- Reduced rate of carbonation
- It does not contain chloride or other steel corrosion promoting ingredients. It may therefore be used without any restrictions for reinforced- and pre-stressed – concrete construction.

Features

La HyperCast SC is formulated using new generation PCE and special additives for high strength. It is manufactured under controlled environment and strict quality condition to produce a consistent product.

Dosage

The optimum dosage should be determined by site trial with the particular concrete mix. As a guide the rate of addition is generally in the range of 0.3-1.2% by weight of cement depending on the site conditions.. Arriving at right dosage depends on water cement ratio, cement content and other desired properties as per the site condition.

The plasticizing-cum-water reducing properties are improved if the admixture is added to moist concrete after adding 60-70% of mixing water. Addition of La HyperCast SC to dry cement or aggregate is not recommended.

Caution: Over dosage of La HyperCast SC may result into segregation/bleeding of mix, delayed initial/final set, increased plastic shrinkage, air entrainment, etc

Methods of Use

La HyperCast SC is supplied in ready for use. For maximum dispersion throughout the mix, measured quantity of La HyperCast SC should be added directly into the mixer at the same time as the mixing water. On no account should be added to the dry cement.

Package

La HyperCast SC is supplied in 225kg carboys

Shelf Life

La HyperCast SC has a shelf life of 18 months from the date of manufacture provided the temperature is within the range of 20°C-40°C. It is recommended that the drums to be stored in shade and cool place.

Health & Safety

La HyperCast SC is non-toxic, non-flammable and splashes to the skin should be washed with copious amounts of water.

If contact with eyes occurs, wash well with water immediately and seek medical advice.

Warning

Although the technical details mentioned in the datasheet are recommended to the best of our experience & knowledge, information must be taken merely indications. Practical trials have to be conducted at site for arriving the optimum dosage. In every case, the user alone is fully responsible for any consequence deriving from the use of the product

Important: La Greens India Pvt. Ltd., products are guaranteed against defective materials and are sold subject to its standard terms and conditions of sale. It is the Customer's responsibility to satisfy themselves by checking with the Company whether the information is still current at the time of use. The customer must be satisfied that the product is suitable for the use intended. All products comply with the properties shown on current Technical Literatures. However, La Greens India does not warranty or guarantee the installation of the products as it does not have any control over installation or end use of the product. All information and particularly the recommendation relating to application and end use are given in good faith.



La Greens India Pvt. Ltd.

(Formerly Known as Lacrete Durakem (India) Pvt. Ltd.)

No.136, SLV Arcade, 2nd Floor, 1st K Block,
Dr. Rajkumar Road, Rajaji Nagar, Bangalore 560 010.

+91 80 4157 1956 | info@lagreensindia.com | www.lagreensindia.com

Manufacturing Unit :

Plot No.154, KIABD Indl. Area, 2nd Phase,
Antharasanahalli, Tumkur - 572106, Karnataka



An ISO : 9001 Accredited Company