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

La HyperCrete SR is chloride-free and compatible with all types of cement.

At the very early stage of the mixing process, the PCs 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 in flowable concrete with great reduction in water content and long term dispensability.

La HyperCrete SR is formulated from carefully selected raw materials and speciality chemicals such as VMA to avoid bleeding and segregation. It is manufactured under controlled environment and strict quality condition to produce a consistent product.

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 0.3-1.0% 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.

La HyperCrete SR acts by different mechanisms. Through surface adsorption and sterical separation effect on the cement particles, in parallel to the hydration process, the following properties are obtained:

- Strong self compacting behaviour, therefore suitable for the production of self compacting concrete (S.C.C)
- Extremely high water reduction (resulting in high density and strengths)
- Excellent flowability (resulting in highly reduced placing and compacting efforts)
- Improved shrinkage and creep behaviour
- Reduced rate of carbonation of the concrete
- It does not contain chloride or other steel corrosion promoting ingredients. It may therefore be used without any restrictions for reinforced- and prestressed – concrete construction.

La HyperCrete SR facilitates extreme water reduction, excellent flowability with the same time optimal cohesion and highest self compacting behaviour.

La HyperCrete SR is used for the following types of concrete:
- Self compacting
- Concrete with highest water reduction (upto 40%)
- High strength concrete

<table>
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<th>Product Description</th>
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**Methods of Use**

La HyperCrete SR is supplied in ready for use. For maximum dispersion throughout the mix, measured quantity of La HyperCrete SR 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 HyperCrete SR is supplied in 225kg carboys

**Shelf Life**

La HyperCrete SR 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 HyperCrete SR 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.