

DARACEM[®] SP6 S*

Concrete Superplasticiser

Product Description

DARACEM[®]SP6 S* is a high efficiency liquid superplasticiser which has been designed to improve the slump retaining properties of high workability concretes. It is also beneficial in improving cohesion of concretes especially in applications where difficult or inaccessible pours are to be made.

DARACEM SP6 S*, previously known as ADVA XR 3063, is based on modified synthetic carboxylated polymers and is manufactured under controlled conditions to give a consistent product. DARACEM SP6 S* meets the requirements of ASTM C 494 Type G.

Typical Properties

- Appearance: Brown Liquid
- Specific Gravity: 1.05 at 20 °C
- Air Entrainment: 1.0% to 2.0% approx.
- Chloride Content: Nil

Method Of Use

When producing high workability concrete, DARACEM SP6 S* should be added after the addition of the cementitious component in its supplied form with part of the batching water. After addition of the admixture, a further mixing is recommended to enable DARACEM SP6 S* to efficiently disperse the mix components.

Advantages

- High workability concrete with low w/c ratio
- Improved cohesion
- Enhanced pumpability
- Dosage efficient
- Suitable for use with PFA / GGBFS / SF

Compatibility with Cements

DARACEM SP6 S* can be used with most types of Portland cements. For use with special cements we recommend you to contact Grace Construction Products

Compatibility with other Admixtures

DARACEM SP6 S* should not be premixed under any circumstances with other admixtures. While some admixtures can be usefully combined within the same mix the performance of this product may well be affected by the presence of other chemicals and we recommend that Grace be contacted for advice in all such circumstances.

Addition Rates

Range: 1100ml – 2400ml per 100kg cement 1.1% – 2.4% volume by weight of cement

As with most products of this type the magnitude of the effect obtained with DARACEM SP6 S*, is governed by the quantity of product used, w/c ratio, and the specific nature of the concrete and constituent materials.

Addition rates outside of the recommended dosage range may be used for special concrete applications. In such circumstances it is important to conduct preliminary trials on the actual mix constituents to assess the effect on the properties of the concrete at the dosage level specified

It is necessary therefore to assess performance under site conditions using actual materials to determine optimum performance and dosage.

For advice and assistance with trials we recommend that you consult Grace Construction Products.

Effects of Overdosing

The effects of overdosing DARACEM SP6 S* is a function of the degree of overdose. When concrete has been produced, which has been overdosed, the level of workability will increase and may under certain situations lead to segregation of the mix. Setting time may also increase, especially if the overdosed concrete is subjected to low ambient temperatures, or if sulphate resisting or certain pozzolanic cements are employed.

Dispensing

It is preferable that DARACEM SP6 S* should be introduced into the mixer by means of independent automatic dispensing equipment. Such equipment or advice on dispensing can be obtained from Grace Construction Products.

Health and Safety

For further information see DARACEM SP6 S* Material Safety Data Sheet or consult Grace Construction Products.

Packaging

DARACEM SP6 S* is supplied in 210 Litre non-returnable drums. Alternatively,

1,000 Litre IBCs and bulk deliveries can be arranged.

Storage

DARACEM SP6 S* should be stored in original containers or suitable closed tanks, preferably out of direct sunlight and protected from extremes of temperature

Storage Life in Manufacturer's Drums & IBCs:

12 months from date of manufacture

Storage Life in Bulk Storage:

12 months from date of delivery

Technical Service

The Technical Service Department of Grace Construction Products is available to assist you in the correct and best use of our products. These resources and advice are at your disposal entirely without obligation. Please contact:

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