

Fluidum R210

Third generation super plasticizer for Concrete

ASTM C494 Type F & G, ASTM C-1017 Type I & II and BS EN 934-2

Description

Fluidum R210 a high efficiency liquid superplasticizer which has been designed to improve the slump retaining properties of high workability concretes especially in mixes with very low W/C Ratios. It is also beneficial in improving cohesion of concrete especially in applications where difficult or inaccessible pours are to be made.

It is based on modified synthetic carboxylates polymers.

Typical Properties

Appearance: Brownish Viscous Liquid.

Specific Gravity: 1.11 ± 0.02 at 25°C.

Air Entrainment: 1% Max. from Control Mix.

Chloride Content: Nil according to BS5075.

Compatibility

With Cements:

Fluidum R210 is compatible with all Portland, Pozzolanic and Blast Furnace cement, and it is also compatible with concrete containing fly ash and silica fume.

With Other Admixtures:

Fluidum R210 performance will be affected by the presence of other chemical admixtures.

We recommend Arkaz be contacted for Advice in case using the product with other admixtures.

Addition Rates

Range:

300 ml - 2000 ml per 100 kg cement

0.3%-2.0% (v/w) by wt. of cement

As with most products of this type the magnitude of the effect obtained with Fluidum R210, is governed by the quantity of product used, w/c ratio, and the specific nature of the concrete and constituent materials.

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 contact Arkaz.

Effects of Overdosing

The effects of overdosing **Fluidum R210** are 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 sulfate resisting or certain pozzolanic cements are employed.

Dispensing

It is preferable that **Fluidum R210** should be introduced into the mixer by means of independent automatic dispensing equipment. Such equipment or advice on dispensing can be obtained from Arkaz.

Method of Use

Fluidum R210 is supplied ready for use. When producing high workability concrete or concrete of low w/c ratio it is recommended that **Fluidum R210** be added in its supplied form to the batching water prior to addition of the cementitious component.

Addition of any other chemical admixture should be undertaken separately.

Health and Safety

For further information, please consult Arkaz

Technical Service

The technical service department of Arkaz Alsharq Building Materials is available to assist 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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Storage

Fluidum R210 should preferably be stored away from extremes of cold or heat. The product should be kept in shaded storage at all times.

Storage Life in Manufacturer's Drums:
12 months from date of manufacture.

Storage Life in Bulk Storage:
12 months from date of delivery.

Packaging

Fluidum R210 is supplied in 210 non-returnable drums. Alternatively, 1,000 liters totes and bulk deliveries can be arranged.

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