

Fluidum PC314

High Efficiency Liquid Super Plasticizer

ASTM C-494 Type A and F & BS EN 934-2

Description

Fluidum PC314 a high efficiency liquid super plasticizer which has been designed to improve the slump retaining properties of high workability concretes. 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: 1.1 at 20°C

Air Entrainment: up to 1% max from Control Mix.

Compatibility

With Cements:

Fluidum PC314 can be used with most types of Portland cements. For use with special cements we recommend you to contact Arkaz.

With Other Admixtures:

Fluidum PC314 should not be premixed under any circumstances with other admixtures. The performance of the product will be affected by the presence of other chemical admixtures. We recommend that all admixtures be added separately into the mix.

Addition Rates

Range:

300 ml - 2500 ml per 100 kg cement

0.3%-2.5% (v/w) by wt. of cement

The Maximum Dose can reach up to 3% for some concrete applications, but It is necessary therefore to assess performance under site conditions using actual materials to determine optimum performance and dosage.

As with most products of this type the magnitude of the effect obtained with **Fluidum PC314**, is governed by the quantity of product used, w/c ratio, and the specific nature of the concrete and constituent materials.

For advice and assistance with trials we recommend that you contact Arkaz.

Effects of Overdosing

The effects of overdosing **Fluidum PC314** 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 Pozzolanitic cements are employed.

Dispensing

It is preferable that **Fluidum PC314** 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 PC314 is supplied ready for use. When producing high workability concrete or concrete of low w/c ratio it is recommended that Fluidum **PC314** 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 PC314 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 PC314 is supplied in 210 non-returnable drums. Alternatively, 1,000 liter totes and bulk deliveries can be arranged.

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