

# Fluidum PC495

High Efficiency Liquid Superplasticizer for concrete combining both enhanced consistence Retention and Rheology performance

Conforms with ASTM C494 Type A, F and G and BS EN 934-2

## DESCRIPTION

**Fluidum PC495** a high efficiency liquid super plasticizer which has been designed to impart exceptional rheological properties to fresh concrete. It improves considerably the placing and finishing of concretes and enhances the ease of concrete pumping for all construction activities It is based on modified synthetic carboxylates polymers, **Fluidum PC495** is recommended to produce concrete requiring low viscosity, long workability retention and high compressive strength.

## TYPICAL PROPERTIES

**Appearance:** Brownish Viscous Liquid

**Specific Gravity:** 1.1 at 25°C

**Air Entrainment:** 1% approx. from Control Mix

**Chloride Content:** Nil

## COMPATIBILITY

### With Cements:

**Fluidum PC495** can be used with most types of Portland cements. For use with special cements, we recommend you contact Arkaz.

### With Other Admixtures:

**Fluidum PC495** performance 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

As with most products of this type the magnitude of the effect obtained with **Fluidum PC495**, 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 PC495** 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 PC495** 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 PC495** is supplied ready for use. When producing high workability concrete or concrete of low W/C ratio it is recommended that **Fluidum PC495** 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.

## PACKAGING

**Fluidum PC495** is supplied in 210 non-returnable drums. Alternatively, 1,000 liters totes and bulk deliveries can be arranged.

## HEALTH AND SAFETY

For more Safety information you can check Product Material Safety Data Sheet, send an email to [ConcreteDoctor@arkaz.com](mailto:ConcreteDoctor@arkaz.com) or Contact Arkaz Technical Department.

## STORAGE & SHELF LIFE

**Fluidum PC495** should preferably be stored away from extremes of cold or heat. Always keep product in shaded storage.

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

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

## TECHNICAL SERVICE

The technical service department of Arkaz 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:  
concretedoctor@arkaz.com

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