

# Fluidum PC190

High-Range PCE Based Concrete Superplasticizer  
Comply to ASTM C494 Type A , F and G, and BS EN 934-2

## DESCRIPTION

**Fluidum PC190** is a new generation superplasticizer based on Polycarboxylate technology. It is designed to provide a Moderate to high performance of water reduction for high strength concrete, while providing excellent fluidity during placement and extreme slump retention without affecting initial setting time. It is especially designed for concretes used at high temperatures and shows better water reducing effects and slump retention than existing water reducer.

## TYPICAL PROPERTIES

**Appearance:** : Brownish Viscous Liquid.  
**Specific Gravity:** 1.07 ± 0.02 at 25 ± 2°C.  
**Chloride Content:** Nil according to BS 5075.

## COMPATIBILITY

### With Cements:

**Fluidum PC190** can be used with most types of Portland cements as well as Pozzolanic Cements, Natural Pozzolan, Ground Granulated Blast Furnace Slag (GGBFS) ( **Arcrete BFS100**), Micro Silica (**Arcrete MS920**) and Fly Ash (**Arcrete FA10**). For use with other special cements, we recommend you contact Arkaz Technical Department.

### With Other Admixtures:

**Fluidum PC190** performance will be affected by the presence of other chemical admixtures, therefore in such case it is necessary to assess performance under site conditions using actual materials to determine optimum performance, we advise that all admixtures be added separately into the mix.

We recommend Arkaz Technical Service Department be contacted for Advice in these circumstances.

## ADDITION RATES

### Range:

0.5%-3% (v/w) by wt. of cement

As with most products of this type the magnitude of the effect obtained with **Fluidum PC190**, 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 PC190** 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 PC190** 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 PC190** is supplied ready for use. It should be added to concrete mixes either during the mixing cycle or at the same time as the water, or alternatively it should be added in its supplied form to a normal concrete mix a few minutes before the pour is made. In the latter case, further mixing should be provided to ensure complete dispersion.

## PACKAGING

**Fluidum PC190** is supplied in 210 non-returnable drums. Alternatively, 1,000-liter totes and bulk deliveries can be arranged.

## HEALTH AND SAFETY

For further information, please Check Product Material Safety Data Sheet or consult Arkaz Technical Department.

## STORAGE & SHELF LIFE

**Fluidum PC190** should be stored in original containers or suitable closed tanks preferably away from extremes of temperature. The product should always be kept 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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