

# Fluidum PC19

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

## DESCRIPTION

**Fluidum PC19** 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:** 1.05 at 20°C  
**Air Entrainment:** 1% Max from Control Mix.  
**Chloride Content:** Nil according to BS 5075.

## COMPATIBILITY

### With Cements:

**Fluidum PC19** can be used with most types of Portland cements. For use with special cements, we recommend you contact Arkaz.

### With Other Admixtures:

**Fluidum PC19** 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:

500 ml - 3000 ml per 100 kg cement  
0.5%-3.0% (v/w) by wt. of cement

As with most products of this type the magnitude of the effect obtained with **Fluidum PC19**, 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 PC19** 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 PC19** 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 PC19** is supplied ready for use. When producing high workability concrete or concrete of low W/C ratio it is recommended that **Fluidum PC19** 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 PC19** 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 PC19** 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

### LEGAL DISCLAIMER

The information given is based on data and knowledge considered to be true and accurate and is offered for the user's consideration, investigation and verification. Since the conditions of use are beyond our control, we do not warrant the results to be obtained. Please read all statements, recommendations or suggestions in conjunction with our conditions of sale including those limiting warranties and remedies which apply to all goods supplied by us. No statement, recommendation or suggestion is intended for any use which would violate or infringe statutory obligations or any rights belonging to a third party.

These products may be covered by patents or patents pending.



Copyright 2021  
Printed in K.S.A. Version 2.0  
25-March-2021