

# Fluidum PC3805



Mid Range Water Reducing Concrete Admixture  
for Hot Weather Ready Mix Concrete Applications

## DESCRIPTION

**Fluidum PC3805** is a Mid Range Water Reducer developed to enhance and improve the slump retaining properties of concrete, whilst providing improved ultimate compressive strengths. It can be used at a range of dosage levels to:

- Reduce water content
- Reduce Cement Content
- Increase compressive strength
- Increase workability

**Fluidum PC3805** is a high efficiency liquid superplasticizer which has been designed to impart exceptional rheological properties to fresh concrete. It improves considerably the placing and finishing of concrete and enhances the ease of concrete pumping for all construction activities. It is based on modified synthetic carboxylates polymers, **Fluidum PC3805** is recommended to produce concrete requiring low viscosity, long workability retention and high compressive strength. The product is especially beneficial in either high strength or high durability concrete mix designs in hot climatic conditions.

## TYPICAL PROPERTIES

<b>Appearance:</b>	Clear viscous Liquid
<b>Specific Gravity:</b>	1.06 ± 0.02 at 25°C
<b>Air Entrainment:</b>	1.0% Max from Control Mix.
<b>Chloride Content:</b>	Nil according to BS5075
<b>ASTM C494 classification:</b>	Type G

## EFFECTS OF OVERDOSING

Serious overdosing of **Fluidum PC3805** will generally produce a concrete mix of even greater workability, set retardation and a slight increase in air entrainment may be noticed. In SRC mixes and in cooler weather, set retardation will be further increased.

## COMPATIBILITY

### With Cements:

**Fluidum PC3805** can be used with most types of Portland cements as well as Pozzolanic Cements, Ground Granulated Blast Furnace Slag (GGBFS), Micro Silica and Fly Ash. For use with other special cements, we recommend you contact Arkaz Technical Department.

### With Other Admixtures:

**Fluidum PC3805** performance will be affected by the presence of other chemical admixtures. We recommend Arkaz Technical Service Department to be contacted for Advice in these circumstances.

## ADDITION RATES

### Range:

500 ml - 2500 ml per 100 kg cement  
0.5 % – 2.5 % (v/w) by wt. of cement

As with most products of this type the magnitude of the effect obtained with **Fluidum PC3805** is governed by the quantity of product used, water-cement 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 and effect on both plastic and hardened concrete properties such as cohesiveness, workability retention, setting characteristics, rate of early strength gains, ultimate strength and shrinkage where these are of importance.

## DISPENSING

It is preferable that **Fluidum PC3805** 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 PC3805** 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 PC3805** is supplied 1,000-liter totes/drums.

## HEALTH AND SAFETY

For more safety information you can check the MSDS or contact Arkaz technical department.

## STORAGE & SHELF LIFE

**Fluidum PC3805** should be stored in original containers or suitable closed tanks, preferably away from extreme temperature. Always keep product in shaded storage.

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

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### 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 us via our website [arkaz.com](http://arkaz.com)

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