

# ARCrete PC 410H

## High Efficiency Liquid Super Plasticizer

ASTM C494 Type F & G & BS EN 934-2

### Description

**ARCrete PC 410H** a high efficiency liquid superplasticizer 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:** Ambur Viscous Liquid  
**Specific Gravity:** 1.08 at 20°C  
**Air Entrainment:** 1% approx.  
**Chloride Content:** Nil

### Compatibility

With Cements:

**ARCrete PC 410H** can be used with most types of Portland cements.

For use with special cements we recommend you to contact Arkaz

With Other Admixtures:

**ARCrete PC 410H** 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.

### Method of Use

**ARCrete PC 410H** is supplied ready for use.

When producing high workability concrete or concrete of low w/c ratio it is recommended that **ARCrete PC 410H** 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.

### 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 **ARCrete PC 410H**, 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 **ARCrete PC 410H** 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 **ARCrete PC 410H** should be introduced into the mixer by means of independent automatic dispensing equipment. Such equipment or advice on dispensing can be obtained from Arkaz.

### Storage

**ARCrete PC 410H** 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.

### Health and Safety

For further information please consult Arkaz

### Packaging

ARCrete PC 410H is supplied in 210 non-returnable drums.  
Alternatively, 1,000 liters totes and bulk deliveries can be arranged.

### 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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PO Box 2572, Khobar, 31952  
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