

# Fluidum R11

## Mid-Range PCE Based Concrete Plasticizer

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

### Description

**Fluidum R11** is a new generation superplasticizer based on Polycarboxylate technology. It is designed to provide a Moderate 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:** 1.045 at 20°C

**Air Entrainment:** 1% approx.

**Chloride Content:** Nil

### Compatibility

#### With Cements:

**Fluidum R11** can be used with most types of Portland cements. For use with special cements we recommend you to contact Arkaz

#### With Other Admixtures:

**Fluidum R11** 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.

### Addition Rates

#### Range:

**500 ml - 2000 ml per 100 kg cement**

**0.5%-2.0% (v/w) by wt. of cement**

As with most products of this type the magnitude of the effect obtained with **Fluidum R11**, 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 R11** 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 R11** 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 R11** is supplied ready for use.

When producing high workability concrete or concrete of low w/c ratio it is recommended that **Fluidum R11** 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.

## Health and Safety

For further information please consult Arkaz

## 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:

Arkaz Alsharq Building Materials  
Dammam 2nd Industrial Area - Road 135  
PO Box 2572, Khobar, 31952  
Saudi Arabia  
Tel: 013 808 6970  
Fax: 013 812 6541  
[info@arkaz.com](mailto:info@arkaz.com)  
[www.arkaz.com](http://www.arkaz.com)

## Storage

**Fluidum R11** 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.

## Packaging

**Fluidum R11** is supplied in 210 non-returnable drums. Alternatively, 1,000 liters totes and bulk deliveries can be arranged.

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