

## Fluidum R157

### Third Generation Superplasticizer for Concrete

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

#### Description

**Fluidum R157** a high efficiency liquid superplasticizer which has been designed to improve the slump retaining properties of high workability concretes especially in mixes with low W/C Ratios. 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:** Brownish Viscous Liquid

**Specific Gravity:** 1.1 at 20°C

**Air Entrainment:** 1% approx.

**Chloride Content:** Nil

#### Compatibility

##### **With Cements:**

**Fluidum R157** can be used with most types of Portland cements. For use with special cements we recommend you to contact Arkaz

##### **With Other Admixtures:**

**Fluidum R157** 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 R157**, 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 R157** 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 R157** 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 R 157** is supplied ready for use.

When producing high workability concrete or concrete of low w/c ratio it is recommended that **Fluidum R157** 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 R157** 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 R157** is supplied in 210 non-returnable drums. Alternatively, 1,000 liters' totes and bulk deliveries can be arranged.

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 2015

Printed in K.S.A.

28-April-2015