

# DARACEM<sup>®</sup> 150F

Concrete Superplasticiser

## Product Description

DARACEM<sup>®</sup>150F is a high performance liquid superplasticiser that has been developed to enhance and improve the slump retaining properties of concrete, whilst providing improved ultimate compressive strengths. It is an extremely versatile and flexible product and is effective over a wide range of cement contents and cement types.

DARACEM 150F is especially beneficial in high durability concrete mix designs. It can be used effectively in cementitious systems that utilise Ground Granulated Blast Furnace Slag, Pulverised Fuel Ash, Silica Fume or Portland Cements.

DARACEM 150F is particularly useful for imparting extreme workability to concrete mixes so that large or difficult pours can be made, especially under hot climatic conditions.

DARACEM 150F is formulated from carefully selected raw materials and is manufactured under controlled conditions to give a consistent product. It is an extremely powerful deflocculating agent and performs by dispersion of the cement into primary particles, dramatically improving flow of the cement paste.

DARACEM 150F meets the requirements of ASTM C494 Type D and G, BS EN 934-2 and ASTM C1017.

## Advantages

- DARACEM 150F is especially suitable for producing high workability concrete that has excellent workability retention. In this application, minimum extensions of setting time and little loss in early age compressive strength are observed.
- High workability flowing concrete can be obtained by incorporating DARACEM 150F into a concrete mix designed for a 50 mm slump. Normal pump mixes are recommended for this application.
- DARACEM 150F can be used to effect high range water reductions, typically up to 30%, leading to considerable increases in compressive strength. Impermeability and durability are correspondingly improved.

## Typical Properties

ADVA Flex 606	dark brown liquid
Appearance	1.22 at 20 °C
Specific Gravity	0.5% approx
Air Entrainment	Nil
Chloride Content	

## Method of Use

DARACEM 150F is supplied ready for use.

When producing high workability concrete it should be added in its supplied form to the batching water, prior to the addition of the cementitious component. After the addition of cement, further mixing is recommended to enable DARACEM 150F to efficiently disperse the mix components.

## Compatibility with Cements

DARACEM 150F can be used with all types of cements, including Limestone Cements. It is also effective in concretes containing pulverised fuel ash or ground granulated blast furnace slag. For use with special cements we recommend that you consult GCP Applied Technologies.

## Compatibility with other Admixtures

DARACEM 150F should not be premixed under any circumstances with other admixtures. While some admixtures can be usefully combined within the same mix the performance of this product may well be affected by the presence of other chemicals and we recommend that GCP be contacted for advice in all such circumstances.

## Addition Rates

Range: 500 ml–3000 ml per 100 kg cement (0.5%–3.0% [v/w] by weight of cement)

As with most products of this type, the magnitude of the effect obtained with DARACEM®150F is governed by the quantity of product used and the specific nature of the concrete and its constituent materials.

It is therefore necessary to assess performance under site conditions using site materials to determine optimum dosage and effect on both plastic and hardened concrete properties, such as cohesiveness, workability retention, set characteristics, early rate of strength gain, ultimate compressive strength and shrinkage when these are of consequence. As a guide to these trials, an addition level of 1.2%–1.4% DARACEM 150F volume/weight of cement is recommended.

Addition rates outside the recommended dosage range may be used for special concrete applications. This may be the situation when Silica Fume or Blast Furnace Slag Cement is used. In such circumstances it is important to conduct preliminary trials on the actual mix constituents to assess the effect on the properties of the concrete, at the dosage level specified.

For advice and assistance with

## Effects of Overdosing

The effects of overdosing DARACEM 150F are a function of the degree of overdose.

When producing high workability concrete, overdosing will increase the level of workability and may induce the onset of segregation.

Depending on the extent of the overdose, an increase in the setting time may also occur, especially in low temperatures and/or when employing sulphate resisting cement or cement replacement materials.

In any situation where overdosing is suspected, a careful inspection of the concrete in its plastic state should be conducted. Particular attention should be paid to consistency and cohesiveness, prior to a decision on the suitability of the concrete for the particular application in question.

## Dispensing

It is preferable that liquid admixtures for concrete should be introduced into the mixer by means of automatic dispensing equipment. Such equipment is available from GCP and details will be supplied on request.

## Health and Safety

DARACEM 150F is formulated from chemicals which present no fire or health hazards.

For further information see DARACEM 150F SDS (Safety Data Sheet) or consult GCP.

## Packaging

DARACEM 150F is supplied in 210 litres, non-returnable containers.

Alternatively, 1000 litre IBCs or bulk deliveries can be arranged.

## Storage

DARACEM 150F should be stored in original containers or suitable closed tanks, preferably out of direct sunlight and protected from extremes of temperature.

### Storage Life in Manufacturer's Drums:

12 months from the date of manufacture.

### Storage Life in Bulk Storage:

12 months from the date of manufacture

## Technical Service

The Technical Service Department of GCP is available to assist you in the correct and best use of our products. These resources and advice are at your disposal entirely without obligation. Please contact:

GCP Applied Technologies  
**Emirates Chemicals LLC**  
Festival Tower, Suite 1701  
Dubai Festival City  
P.O. Box 5006  
Dubai, United Arab Emirates  
**Tel: +971 4 2329901**  
**Fax: +971 4 2329940**  
Email: [meinfo@grace.com](mailto:meinfo@grace.com)

**[gcpat.ae](http://gcpat.ae) | United Arab Emirates customer service: +971 4 5139560**

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GCP Applied Technologies Inc., 2325 Lakeview Parkway, Alpharetta, GA 30009, USA

P. O. Box 5006, Office 2104, 21 Floor, The Exchange Tower, Opp. JW Marriott Marquis Hotel, Business Bay, Dubai – United Arab Emirates

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