

ADVA[®] Floor 200

High Range Water Reducer / Superplasticiser for Concrete Floors

Product Description

ADVA[®] FLOOR 200 is a high range water-reducer intended for concrete floor applications. It is designed to impart neutral set and then dramatic improvements in finishing properties to concrete, enabling placement of concrete and power-floating operations to be carried efficiently.

ADVA[®] FLOOR 200 is based on a synthetic carboxylated polymer formulated with a powerful deflocculant. ADVA[®] FLOOR 200 conforms to EN 934-2 and manufactured under controlled conditions to give a consistent product..

Advantages

- ADVA[®] FLOOR 200 ensures that the floor finishing operations are easier and quicker and reduces delays prior to power-floating
- Aids cohesion and pumping operations
- ADVA[®] FLOOR 200 is highly efficient and enables the production of high slump concrete
- Plasticised concretes using ADVA[®] FLOOR 200 have notably improved finishing characteristics. Normal pump mixes are recommended
- ADVA[®] FLOOR 200 is a finishing enhancer with a combined superplasticising effect which allows for high range water reductions leading to considerable increase in compressive strength
- Impermeability and the concrete durability are correspondingly improved.

Typical Properties

ADVA [®] FLOOR 200	
Appearance	Brown liquid
Specific Gravity (20 °C)	1.085
Alkali Content (eq.Na ₂ O)	1.50%
Chloride Content	Nil
Air Entrainment	1.0-2.0%
Freezing Point	0 °C

Method Of Use

ADVA[®] FLOOR 200 is supplied ready for use.

When producing high consistence concrete or concrete of low w/c ratio it is recommended that ADVA® FLOOR 200 be added in its supplied form with part of the batching water, after the addition of the cementitious component. After the addition of admixture, a further mixing cycle of at least two minutes to enable the ADVA® FLOOR 200 to efficiently disperse the mix components.

Compatibility with Cements

ADVA® FLOOR 200 can be used with most types of Portland cements. It is also effective in concrete containing fuel ash or ground granulated blastfurnace slag.

Compatibility with Other Admixtures

ADVA® FLOOR 200 is fully compatible with other products normally used in flooring concrete, including ECLIPSE® Floor Shrinkage Reducing, DCI® Corrosion Inhibitor GCP MICROFIBER® and air entraining admixtures. Each admixture must be added separately. Individually added, each will deliver exactly the results desired. However, the performance of the material may be affected by the presence of other chemicals and we would recommend that GCP Applied Technologies be consulted in such circumstances.

Addition Rates

Range	400 ml - 1200 ml per 100 kg cement
	0.40%-1.20% (v/w) by wt. of cement
As a guide to trials an addition rate of 0.60-0.80% volume by weight of cement is suggested.	
For advice and assistance with trials we recommend that you consult GCP Applied Technologies.	

As with most products of this type, the magnitude of the effect obtained with ADVA® FLOOR 200 is governed by the quantity of product used, w/c ratio, and specific nature of the concrete and constituent materials. It is necessary therefore to assess performance under site conditions using actual materials to determine optimum dosage and effect on plastic/ hardened concrete properties, such as cohesiveness, consistence retention, set characteristics, early rate of strength gain, ultimate compressive strength and shrinkage when these are of consequence.

Effects of Overdosing

The effect of overdosing ADVA® FLOOR 200 is a function of the degree of overdose.

When producing high consistence concrete, overdosing will increase the level of consistence and may induce the onset of segregation. Depending on the extent of the overdose, an increase in setting time may also occur, especially in low ambient temperatures and/or when employing Sulfate-resisting Portland cements or cement replacement materials. Any situation where an overdose is suspected, careful inspection of the concrete in its plastic state should be conducted. Particular attention 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 the ADVA® FLOOR 200 should be introduced into the mixer by means of automatic dispensing equipment. Equipment or advice on dispensing can be obtained from GCP Applied Technologies.

Health and Safety

For further information on Health and Safety matters regarding this product we recommend that you consult the relevant Safety Data Sheet from GCP. In line with general chemical handling precautions avoid contact with skin or eyes and protective gloves/goggles should be worn.

Packaging and Storage

ADVA® FLOOR 200 is supplied in 15 or 205 non returnable drums and 1,000 litre totes. Alternatively, bulk deliveries can be arranged. ADVA® FLOOR 200 should be stored away from extremes of temperature and then protected from frost. The product should be kept out of direct sunlight 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.

Technical Service

Our Technical Service department of GCP Applied Technologies is available to assist you in the correct use of our performance chemicals.

gcpat.uk | United Kingdom customer service: +44 (0) 1925 855330

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