

ADVA® FLOOR 241 (FM)

Superplasticizer for concrete
acc. to EN 934-2:T3.1/3.2

Product Description

ADVA FLOOR 241 (FM) is a high range water-reducing and set accelerating admixture for concrete mixes for concrete floors. It is designed to impart dramatic improvements in finishing properties and reduce setting time, enabling placement of concrete and power-floating operations to be carried out more quickly.

ADVA FLOOR 241 (FM) is based on a synthetic carboxylated polymer formulated with powerful inorganic accelerators and is manufactured under closely controlled conditions to give a consistent product.

Method Of Use

ADVA FLOOR 241 (FM) is supplied ready for use. When producing high workability concrete it can be added in its supplied form to the batching water, prior to the addition of the cementitious component. After the addition of cement, a further mixing cycle of at least 2 minutes is recommended to enable ADVA FLOOR 241 (FM) to efficiently disperse the mix components.

Compatibility with Cements

ADVA FLOOR 241 (FM) can be used with all types of Portland Cements, including Sulphate Resisting Cements. It is also effective in concretes containing pulverised fuel ash or ground granulated blast furnace slag.

For use with special cements we recommend contacting GCP.

Compatibility with Other Admixtures

ADVA FLOOR 241 (FM) is fully compatible with other products normally used in flooring concrete – including air entraining agents, silica fume admixtures, ECLIPSE Shrinkage Reducing Admixture, MICROFIBER and DCI S Corrosion Inhibitor – without impeding their performance.

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 be consulted in such circumstances

Advantages

- ADVA FLOOR 241 (FM) speeds up setting time and reduces delays prior to powerfloating
- Setting time in cold weather is significantly reduced; providing suitable mix designs are employed, ADVA FLOOR 241 (FM) can be used at ambient temperatures near to 0° C
- ADVA FLOOR 241 (FM) is highly efficient and enables the production of high slump concrete
- Providing suitable mix designs are employed, plasticized concretes based on ADVA FLOOR 241 (FM) have dramatically improved finishing characteristics



Typical Properties

Appearance	Brown liquid
Density (g/cm ³)	1,32 ± 0,03
pH Value	5,0 ± 1,0
Chloride Content (m. -%)	< 0,1
Alkali content (m. -%)	< 0,7

Technical Service

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

Addition Rates

Recommended Range:

0.20%–2.50% (v/w) by wt. of cement

As with most products of this type the magnitude of the effect obtained with ADVA FLOOR 241 (FM) 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 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 0.2–2.5%

ADVA FLOOR 241 (FM) volume/weight of cement is recommended.

For advice and assistance with trials we recommend that you consult GCP Applied Technologies.

Health and Safety

For further information we recommend that you consult the Safety Data Sheet.

Storage and Packaging

ADVA FLOOR 241 (FM) 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.

ADVA FLOOR 241 (FM) is supplied in non-returnable drums or totes. Bulk deliveries can also be arranged upon request.

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