

ADVA[®] Flow 707

New generation admixture for performance enhancement of high quality concrete

Product Description

ADVA[®]Flow 707 is a new generation water reducer based on comb polymer technology. It is a ready-to-use high performing liquid admixture with superior dispersing capacity for the cement particles in the concrete mix. This capability exceeds that of normal water-reducing admixtures, resulting in lower dosages and better control. ADVA Flow 707 contains no added chloride. One litre weighs approximately 1.08kg ± 0.02 kg.

ADVA Flow 707 complies with the requirements of admixture specifications: SS 320: 1987. BS 5075: Part 3.

Applications

Excellent slump control and slump retention are necessary properties of any high quality concrete. ADVA Flow 707 is a tailor-made admixture that helps concrete achieve excellent slump retention for all ranges of design workability. ADVA Flow 707 is extremely effective in enhancing workability and slump retention even in mid-slump concrete and concrete with manufactured sand (crush granite fines), where conventional admixtures have difficulties achieving these properties.

ADVA Flow 707 is suitable for a wide range of quality concrete, from low to higher grade concrete, by adjusting addition rate. The use of ADVA superplasticiser can help to provide further water reduction when very low water-cement ratio is needed.

Product Advantages

- Provides long slump life with controlled set times.
- Finishes easily without stickiness, tearing or spotty set characteristics.
- Less susceptible to segregation and bleeding.
- Highly efficient, producing desired slump concrete with no loss in strength.
- Quick and easy application to the concrete mix water for rapid batching.

Compatibility with Other Admixtures

Most water reducers or water-reducing retarders are compatible with ADVA Flow 707 as long as they are added separately to the concrete.

Caution should be exercised when using ADVA Flow 707 with a retarder, as excessive retardation can occur if the admixture dosages are too high. Pre-testing of the concrete should be performed to optimise dosages and addition times of these admixtures. The admixtures should not be in contact with each other before they enter the concrete. ADVA Flow 707 is not compatible with DAREX[®]Super 20 and DARACEM[®]products.

Packaging

ADVA Flow 707 is available in bulk, in 205L drums and in 1,000L totes. ADVA Flow 707 contains no flammable ingredients. In storage, and for proper dispensing, ADVA Flow 707 should be stored under shelter and away from direct sunlight.



Addition Rates

Addition rates of ADVA Flow 707 can vary with type of application. Depending on the application, dosage rates can range from 400 to 1,500mL / 100kg of cementitious material. For best results, ADVA Flow 707 should be added with the mix water. At a given watercement ratio, the slump required for placement can be controlled by varying the addition rate. It is necessary, therefore, to assess performance under site conditions using actual materials to determine optimum performance and dosage and effect on both plastic and hardened concrete properties such as cohesiveness, workability retention, setting characteristics, rate of early strength gain, ultimate strength and shrinkage where these are of importance. Should job site conditions require using more than recommended addition rates, please consult your local GCP representative.

Dispensing Equipment

Please contact your local GCP representative for further information regarding the dispensing equipment for this product.

Health and Safety

See ADVA Flow 707 Material Safety Data Sheet or consult GCP Applied Technologies.

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