

ADVA[®] AF 8001

Superior slump booster for concrete admixture

Product Description

With the advancement of new generation comb polymer technologies and employing its use, we are now able to produce ADVA[®]AF 8001 that is a high performance mid-range water-reducer. This ready-touse liquid admixture has superior dispersing capacity for the cement particles in the concrete mix, and exceeds that of normal water-reducing admixtures, resulting in lower dosages and better control. ADVA AF 8001 contains no added chloride and complies with EN934-2:2001. One litre weighs approximately $1.08\text{kg} \pm 0.02\text{kg}$.

Dispersion

ADVA AF 8001 has a marked capacity to disperse the cement agglomerates normally found in a cement-water suspension. Instead of conventional superplasticizers which partially rely on electrostatic charge repulsive forces, ADVA AF 8001 efficiently disperses cement particles using a powerful steric repulsion model. This allows for lower dosages and better control.

Product Advantages

- Provides extended workability with minimum impact to 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.
- Provides superior slump boosting effect.

Applications

ADVA AF 8001 produces very low water-cement ratio concrete with extreme workability characteristics. ADVA AF 8001 addition will fluidize concrete, making it ideal for high pumping concrete or other applications where high slumps are desired.

Addition Rates

Addition rates of ADVA AF 8001 can vary with type of application. Depending on the application, dosage rates can range from 300 to 1,800mL / 100kg of cementitious material. However, in most applications, 400 to 1,000mL / 100kg of cementitious material will be sufficient. For best results, ADVA AF 8001 should be added with the mix water. At a given water-cement ratio, the slump required for placement can be controlled by varying the addition rate. Should job site conditions require using more than recommended addition rates, please consult your GCP Representative.

Dispensing Equipment

To achieve maximum performance, circulation pump will be installed in the bulk storage tanks. A complete line of admixture dispensers is available. Accurate and easy to maintain, the dispensers are easily adapted to new or existing batching plants.



Compatibility with Other Admixtures

In concrete containing ADVA AF 8001 the use of an air-entraining agent (such as DARAVAIR® or DAREX AEA®) is recommended to provide suitable air void parameters for resistance against freeze-thaw attack. Due to synergistic effects between ADVA AF 8001 and air-entraining agents, the quantity of air-entraining admixture added to concrete containing ADVA AF 8001 may be reduced. Please consult your GCP Representative for dosage guidance. Except naphthalene-based products, most water reducers or water-reducing retarders are compatible with ADVA AF 8001 as long as they are added separately to the concrete. Caution should be exercised when using ADVA AF 8001 with a retarder, as excessive retardation can occur if the admixture dosages are too high. Pretesting 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.

Packaging and Storage

ADVA AF 8001 is available in bulk and in 205L drums. ADVA AF 8001 contains no flammable ingredients. It will begin to freeze at approximately 0°C, but will return to full strength after thawing and thorough agitation. In storage, and for proper dispensing, ADVA AF 8001 should be maintained at temperatures above 0°C. ADVA AF 8001 should be stored under shelter and away from direct sunlight. Shelf life is six months from the date of delivery.

Health and Safety

See ADVA AF 8001 Material Safety Data Sheet or consult GCP Applied Technologies.

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