

MIRA[®] AF6002

Superplasticiser based on new polymer, for enhanced retention of concrete workability

Product Description

MIRA[®]AF6002 is a new superplasticiser based on the latest polycarboxylate-type polymer technology; and with this, the concrete workability and rheology will be significantly enhanced. MIRA AF6002 contains no added chlorides and complies with EN934-2:2001. One litre weighs approximately 1.08kg ± 0.02kg.

Applications

Concrete using MIRA AF6002 can now perform to extreme workability characteristics for high slump; and especially ideal for use in any concrete where it is desired to keep the water-cement ratio to a minimum and still achieve the degree of workability necessary to provide easy placement and consolidation. In the case of tremie concreting or other applications where high middle slump are desired, the addition of MIRA AF6002 will fluidise concrete.

Product Advantages

- Long slump life with controlled set times.
- High slump concrete less susceptible to segregation and bleeding.
- Highly efficient in producing high/middle slump concrete with no loss in strength.
- Easily added with the concrete mix water for rapid batching.

Addition Rates

Depending on the application, dosage rates can range from 200 to 1,500mL / 100kg of cementitious material. However, in most superplasticiser applications, 200 to 1,000mL / 100kg of cementitious material will be sufficient. For best results, MIRA AF6002 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. Should job site conditions require using more than recommended addition rates, please consult your local GCP Representative.

Compatibility with Other Admixtures

In concrete containing MIRA AF6002 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 MIRA AF6002 and air entraining agents, the quantity of air-entraining admixture added to concrete containing MIRA AF6002 may be reduced. Please consult your GCP Representative for dosage guidance. Except naphthalenebased products, most water reducers or water-reducing retarders are compatible with MIRA AF6002 Superplasticiser as long as they are added separately to the concrete. Caution should be exercised when using MIRA AF6002 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.



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.

Packaging

MIRA AF6002 is available in bulk and in 205L drums. MIRA AF6002 contains no flammable ingredients. It will begin to freeze at approximately 0°C, but will return to full strength after thawing and thorough agitation. For storage, and for proper dispensing, MIRA AF6002 should be maintained at temperatures above 0°C.

Health and Safety

See MIRA AF6002 Material Safety Data Sheet.

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