MIRA® 188D

New generation admixture for performance enhancement of mid-strength concrete

Product Description

MIRA®188D is a high performance, new generation mid-range water reducer based on comb polymer technology. It is a ready-to-use 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. MIRA 188D is formulated to comply with the following specifications for chemical admixture for concrete: ASTM C 494, Type F and Type G.

MIRA 188D contains no added chloride. One litre weighs approximately 1.02kg ± 0.02kg.

Applications

MIRA 188D produces concrete with extreme workability characteristics for middle slump, Grade 35 - Grade 50 concrete. It also allows concrete to be produced with low water-cement ratios at middle slump. MIRA 188D is 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.

Compatibility with Other Admixtures

In concrete containing MIRA 188D the use of an air-entraining agent (such as DARAVAIR®or DAREX®AEA®) is recommended to provide suitable air void parameters for resistance against freezethaw attack. Due to synergistic effects between MIRA 188D and air-entraining agents, the quantity of air-entraining admixture added to concrete containing MIRA 188D may be reduced. Please consult your local GCP representative for dosage guidance.

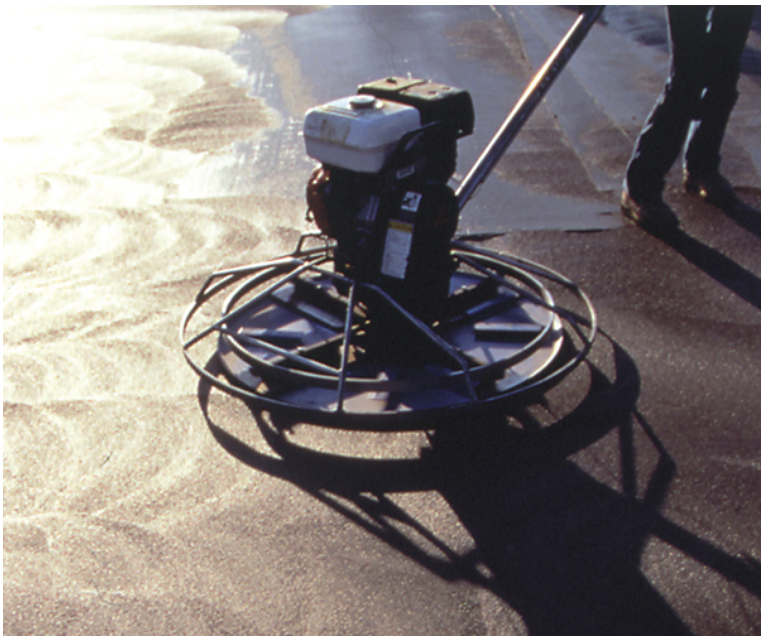
MIRA 188D is not compatible with NSFC or similar type of products.

Most water reducers or water-reducing retarders are compatible with MIRA 188D as long as they are added separately to the concrete.

Caution should be exercised when using MIRA 188D 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.

Addition Rates

Addition rates of MIRA 188D can vary with type of application. Depending on the application, dosage rates can range from 600 to 1,800mL / 100kg of cementitious material. However, in most applications, 800 to 1,200mL / 100 kg of cementitious material will be sufficient. For best results, MIRA 188D 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 local GCP representative.



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

Dispensing Equipment

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

Packaging and Storage

MIRA 188D is available in bulk and in 205L drums. MIRA 188D contains no flammable ingredients.

In storage, and for proper dispensing, MIRA 188D should be maintained at tempertures above 0°C. MIRA 188D should be stored under shelter and away from direct sunlight. Shelf life is six months from the date of delivery.

Health and Safety

See MIRA 188D Material Safety Data Sheet or consult GCP Applied Technologies.

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