MIRA® 188

New generation admixture for performance enhancement of mid-strength concrete

Product Description

MIRA® 188 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 188 is formulated to comply with the following specifications for chemical admixture for concrete: ASTM C 494, Type F and Type G.

MIRA 188 contains no added chloride. One litre weighs approximately 1.07kg ± 0.02kg

Applications

MIRA 188 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 188 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.

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

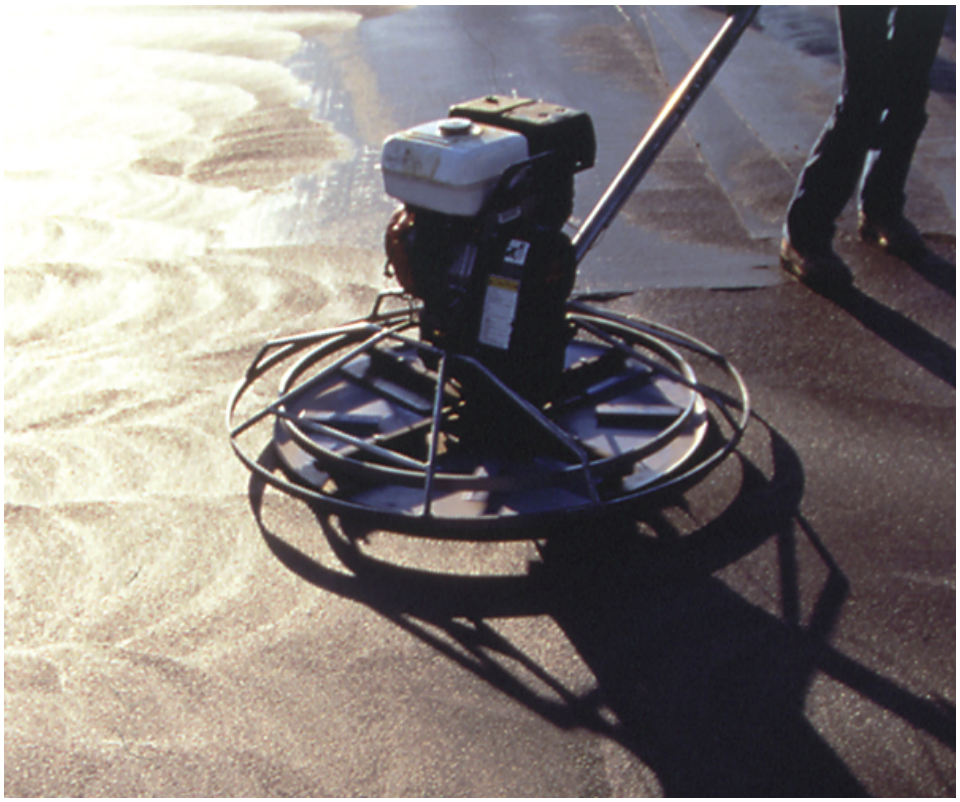
Compatibility with Other Admixtures

In concrete containing MIRA 188 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 188 and airentraining agents, the quantity of air-entraining admixture added to concrete containing MIRA 188 may be reduced. Please consult your local GCP representative for dosage guidance.

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

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

Caution should be exercised when using MIRA 188 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 188 can vary with type of application. Depending on the application, dosage rates can range from 600 to 2,500mL / 100kg of cementitious material. However, in most applications, 800 to 1,400 mL / 100kg of cementitious material will be sufficient. For best results, MIRA 188 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

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

Packaging and Storage

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

In storage, and for proper dispensing, MIRA 188 should be maintained at tempertures above 0ºC. MIRA 188 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 188 Material Safety Data Sheet or consult GCP Applied Technologies.

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