

MIRA[®] 199

New generation admixture for performance enhancement of high quality concrete

Product Description

MIRA[®]199 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 199 contains no added chloride. One litre weighs approximately 1.10kg ± 0.02kg.

MIRA 199 complies with the requirements of admixture specifications: ASTM C 494, Type F and Type G.

Applications

Excellent slump control and slump retention are necessary properties of any high quality concrete. MIRA 199 is a tailor-made admixture that helps concrete achieve excellent slump retention for all ranges of design workability. MIRA 199 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.

MIRA 199 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.

Addition Rates

Addition rates of MIRA 199 can vary with type of application. Depending on the application, dosage rates can range from 600 to 2,500mL / 100kg of cementitious material. In most applications, 800 to 1,800mL / 100kg of cementitious material will be sufficient. However, use of MIRA 199 at high dosage level, may result in long retardation. Trial mix should be done to determine the suitable dosage by using local materials and mix designs. Should job site conditions require using more than recommended addition rates, please consult your local GCP representative.

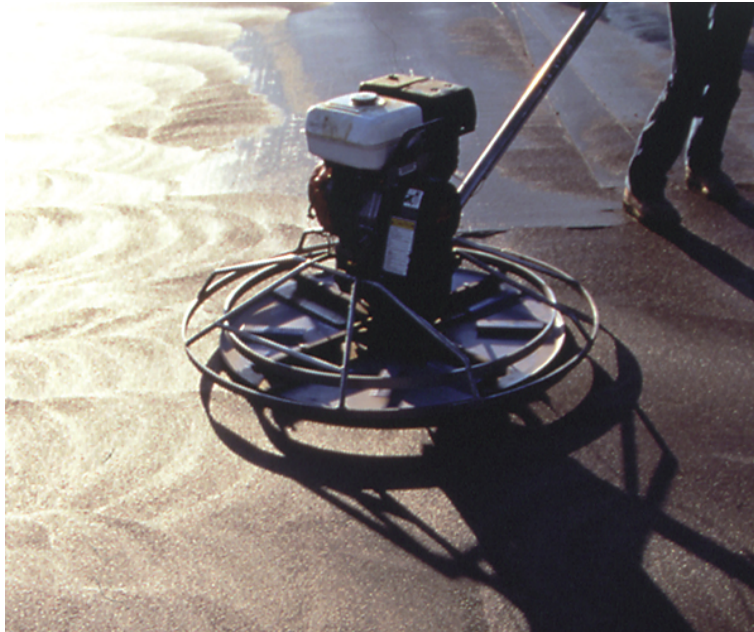
Dispensing Equipment

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

Packaging and Storage

MIRA 199 is available in bulk and in 205L drums. MIRA 199 contains no flammable ingredients.

In storage, and for proper dispensing, MIRA 199 should be stored under shelter and away from direct sunlight. Shelf life is six months from the date of delivery.



Compatibility with Other Admixtures

Most water reducers or water-reducing retarders are compatible with MIRA 199 as long as they are added separately to the concrete.

Caution should be exercised when using MIRA 199 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.

MIRA 199 is not compatible with DAREX[®]Super 20 and DARACEM[®] products.

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

Health and Safety

See MIRA 199 Material Safety Data Sheet or consult GCP Applied Technologies.

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