

# MIRA<sup>®</sup> 151

Mid-range water-reducing admixture

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## Product Description

MIRA<sup>®</sup>151 is a mid-range water reducer specifically formulated to produce concretes with enhanced finishing characteristics and controlled set time. 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 better control.

MIRA 151 contains no added chloride. One litre weighs approximately 1.29kg ± 0.02kg.

MIRA 151 is formulated to comply with the following chemical admixture specifications for concrete: ASTM C494, Type D, Type G; BS 5075: Part 1.

## Applications

Excellent slump control and slump retention are necessary properties of any high quality concrete. MIRA 151 is a tailor-made admixture that helps concrete to achieve excellent slump retention for all ranges of design workability. MIRA 151 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 151 is suitable for a wide range of quality concrete, from low to higher grade concrete, by adjusting addition rate. The use of DARACEM<sup>®</sup> or DAREX<sup>®</sup> superplasticiser can help to provide further water reduction when very low water-cement ratio is needed.

## Product Advantages

- MIRA 151 is robust to variation in harmful clay content in manufactured sand or quarry dust, and help accommodate variation in quality of manufactured sand to give consistent quality of concrete.
- Provides long slump life with controlled set times.
- 8-20% water reduction and dispersion characteristics allow the production of lower water-to-cement ratio concretes and more complete hydration.
- Finishes easily without stickiness, tearing or spotty set characteristics, which results in quick and easy application to the concrete mix water for rapid batching.

## Packaging and Storage

MIRA 151 is available in bulk and in 205L drums. MIRA 151 contains no flammable ingredients. In storage, and for proper dispensing, MIRA 151 should be stored under shelter and away from direct sunlight.



## Addition Rates

Addition rates of MIRA 151 can vary with type of application. Depending on the application, dosage rates can range from 300 to 1,000mL / 100kg of cementitious material. At a given watercement ratio, the slump required for placement can be controlled by varying the addition rate. We recommend that trials are conducted beforehand to determine the optimum dose range to suit your application. If further assistance is required please consult your local GCP representative.

## Compatibility with Other Admixtures

Most water reducers or water-reducing retarders are compatible with MIRA 151 as long as they are added separately to the concrete. MIRA 151 is not compatible with polycarboxylatebased admixtures.

## Dispensing Equipment

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

## Health and Safety

See MIRA 151 Material Safety Data Sheet or consult GCP Applied Technologies.

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