MIRA® 187

Mid-range water-reducing admixture

Product Description

MIRA®187 is an aqueous solution of chemical dispersants combined with other chemicals which increase its beneficial effects on the quality and plasticity of a concrete mix.

MIRA 187 is a mid-range water reducer, specially formulated for extended slump life. It is a low viscosity liquid which has been formulated by the manufacturer for use as received. MIRA 187 contains no added chloride.

MIRA 187 is formulated to comply with the following chemical admixture specifications for concrete: ASTM C494 as Type F and Type G; BS EN 934-2: 2001 and SS EN 934–2: 2008.

One litre of MIRA 187 weighs approximately 1.05kg ± 0.02kg.

Applications

MIRA 187 provides improved slump retention in flowable concrete. It is ideal for low water-cement ratio concrete designed for high early compressive and flexural strengths with exceptional workability and flow characteristics. Because of its unique ability to draw maximum effect from the cement content of a mix, it is suitable for all cement types and frequently gives excellent performance. MIRA 187 can be used in precast/prestress work to reduce the high energy requirement of external heat for accelerated curing. MIRA 187 helps to solve difficult placeability problems such as dense rebar networks or constricted forms and job conditions requiring that the concrete be transported or pumped for long distances. Even at high slump, the concrete consolidates well without segregation. MIRA 187 concrete reaches stripping strengths quickly and finishes easily without the stickiness, tearing and surface drying characteristics sometimes experienced with other high range water reducers.

Addition Rates

Addition rates of MIRA 187 can vary with type of application, but will normally range from 500 to 1,800mL / 100kg of cementitious material. 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.

Dispensing Equipment

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

Health and Safety

See MIRA 187 Material Safety Data Sheet or consult GCP Applied Technologies.

Product Advantages

- Exceptional workability and flowability
- Improved slump retention in flowable concrete
- Good placeability into forms and around reinforcing steel
- Early achievement of form stripping strengths
- Reduced energy requirement for precast/prestress work

Compatibility with Other Admixtures

MIRA 187 treated concrete should use a Wood Resin air-entraining agent, (such as DARAVAIR®) or a tall oil derivative air entrainer (such as DAREX®AEA®) for proper air void parameters to provide resistance against freeze-thaw attack.

Pretesting of the concrete should be performed to optimise dosage rates, determine mix design and setting characteristics. Admixtures should not be in contact with each other before entering the concrete. Pretesting to determine optimum addition rates will benefit performance

Packaging

MIRA 187 is available in bulk, in 205L drums and in 1000L totes. MIRA 187 contains no flammable ingredients. It will begin to freeze at approximately 0°C, but will return to full strength after thawing and agitation. In storage and for proper dispensing, MIRA 187 should be maintained at temperatures above 4°C.

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