

# MC-PowerFlow 2247

High-performance superplasticizer, with long slump retention.

## PRODUCT PROPERTIES:

- High water reduction ability.
- Suitable with mixed designs using high fly ash ratio.
- Good slump retention (from 2 hours to 3 hours) even in hot conditions.
- High early strength values and early formwork stripping.
- Improve construction surface, increase waterproofing ability.
- Free of corrosive components, high flexibility and easier to pour in high temperature.
- Extend setting time but not reduce strength.
- Sustainable concrete, increase waterproofing ability.

## AREAS OF APPLICATION:

- Bored-pile concrete, diaphragm wall,... good slump retention for long time placing.
- Massive concrete, pumping concrete.
- Long transport distances, requiring to maintain good slump retention for difficult placing conditions.
- Beams, slabs, columns,...
- Slender components with congested reinforcement.

## APPLICATION NOTES:

- **MC-PowerFlow 2247** is a new generation of a superplasticizer based on modified polymer polycarboxylate ether with high water reduction causing highly workability with low water content.
- Used for high performance concrete, good slump retention and concrete need high early strength for prestressed items.
- Good slump retention for long transport distances.
- Can be mixed directly into measured water before adding to dry concrete mix or added to wet mixed concrete, should be mixed for at least 1 minute.
- Trial mixes are recommended to establish exact dosage rates required to suit individual requirements. When accidental overdosing occurs, the set retarding effect increases. However, the final strength will not be affected if this period has right curing.
- We can supply accurate dispensing equipment upon request.
- Use an appropriate mixer and do not mix by hand. If assistance is required, please contact our Technical Service Department.
- Can be combined with all MC-BIFI products but must be mixed separately.
- Can be used with all standard cement types as well as sulfate resistant cement.
- Does not contain any hazardous substances. It is safe to use with standard precautions followed in the construction industry, such as use of hand gloves, safety goggles, etc.
- Avoid contact with foodstuffs and utensils. Avoid prolonged skin contact. In case of contamination, it should be thoroughly rinsed with water. When splashed into eyes or mouth, wash thoroughly with clean water and obtain medical attention immediately.

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**TECHNICAL  
DATA:**

Characteristic	Unit	Value	Comments
Density	g/cm <sup>3</sup>	1.05 ± 0.05	
Recommended dosage	Litre	0.6 – 1.6	per 100 kg of binder
Typical dosage	Litre	0.6 – 1.2	per 100 kg of binder
Max. Chloride content	%	per weight < 0.1	

**PRODUCT  
CHARACTERISTICS:**

Standard	Complies with ASTM C494 & TCVN 8826 Type G
Consistency	Liquid
Expiry	8 months
Form of delivery	200 L drums 1000 L IBC tanks Tank trucks

Property specifications are based on laboratory tests and may vary in practical application. To determine the individual technical suitability, preliminary suitability tests should be carried out under the application conditions.

Color: Admixture's color can be changed due to the reaction between polymer component within admixture's composition with UV from sunlight. This phenomenon does not affect to admixture's quality in its shelf-life. We recommend users to store product into covered area to protect from direct sunlight in order to avoid mentioned changing.

Note: The information on this data sheet is based on our experiences and correct to the best of our knowledge. It is, however, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale-delivery-and-service. Recommendations of our employees which differ from the data contained in our information sheets are only binding if given in written form. The accepted engineering rules must be observed at all times.

Edition **11/23**. Some technical changes have been made to this print medium. Older editions are invalid and may not be used anymore. If a technically revised new edition is issued, this edition becomes invalid.