



# MC-PowerFlow 5100

High-Performance Superplasticizer for the ready-mix concrete industry - Based on the newest MC-Polymer-Technology

## Product Properties

- Fast mixing in concrete
- Good water-saving
- Economic dosage
- Good slump retention
- Low adhesiveness
- Good compatibility with air-entraining agent
- Good stabilisation at high consistencies
- Free of corrosion promoting components

## Areas of Application

- Ready mixed concrete
- Industrial flooring
- Concrete with high fluidity
- For combinations with composite-cement
- Power-floated concrete
- Self-compacting concrete (SCC)

## Application Notes

MC-PowerFlow 5100 is a synthetic superplasticizer based on the newest MC-Polycarboxylatether-technology.

The specific functioning-mechanism makes it possible to produce concrete with extremely low water contents and excellent workability. The desired properties of the fresh concrete can be achieved with moderate dosages.

MC-PowerFlow 5100 has been developed to provide plastification and slump retention according to the ready-mix concrete industry. The frequently occurring slump losses with conventional plasticizing admixtures can be reduced considerably in many cases.

An additional dosage of the superplasticizer, for a subsequent correction of the consistency on site is therefore in most cases no longer necessary.

MC-PowerFlow 5100 is added to the concrete during mixing. It is most effective when added after the addition water. It is also possible to dose it with the added water. The mixing time should be long enough to allow the admixture to unfold its plasticizing effect during mixing.

MC-PowerFlow 5100 requires relatively short mixing times to develop its full plasticizing effect. Therefore, a fast and economic concrete production is possible.

In case of dosage on building site in vehicles of ready-mixed concrete, please follow the corresponding set of rules. In some exceptional cases and depending on the dosage and the temperatures slight retarding side effects may occur.

Please note the "General Information on the Use of Concrete Admixtures".



### Technical Data for MC-PowerFlow 5100

Characteristic	Unit	Value	Comments
Density	kg/dm <sup>3</sup>	approx. 1.04	
Recommended Dosage	g	2 - 50	per kg of cement
Max. chloride content	% per weight	< 0.10	
Max. alkali content	% per weight	< 2.0	

### Product characteristics for MC-PowerFlow 5100

Type of Admixture	Superplasticizer EN 934-2: T3.1/ 3.2 (Concrete plasticizer EN 934-2: T2)
Name of Admixture	MC-PowerFlow 5100
Colour	Brown
Consistency	Liquid
Certificate of Conformity	0754-CPR
Notified Authority	MPA, Karlsruhe
Internal Production Supervision in accordance with DIN EN ISO 9001 / DIN EN 934-2/6	
Colour Code	grey / yellow
Form of Delivery	200 kg barrels 1.000 kg containers

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.

**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 04/20. 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.