

# MC-Powerflow 5120

## High Performance Superplasticizer of the New MC-Polymer-Technology

### Product Properties

- Good water-saving
- Economic dosage
- High initial strength
- High quality concrete surfaces
- Free of corrosion promoting components

### Areas of Application

- Pre-cast elements
- Self-compacting concrete (SCC)
- Concrete with high resistance against aggressive agents
- Fair-faced concrete
- High performance concrete
- High strength concrete
- Concrete with high flowability

### Application

MC-Powerflow 5120 is a synthetic superplasticizer based on the newest MC-Polycarboxylatether-technology. The development of the initial strength is enhanced. Therefore MC-Powerflow 5120 is especially appropriate to use in factories for precast elements and in producing pre-stressed concrete.

The specific functioning mechanism makes it possible to produce concrete with extremely low water contents and high performance concrete with excellent processing properties with economic dosages.

With unchanged water content the consistency can be increased by several consistency classes.

The special combination of the active agents permits to produce homogeneous concrete without segregation. Thereby MC-Powerflow 5120 can achieve fair-faced concrete with high qualities.

MC-Powerflow 5120 can be used in combination with other MC admixtures. But in individual cases, please ask for our advisory service for concrete technology.

MC-Powerflow 5120 is added to the concrete during mixing. It is most effective when added after the addition of 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.

In case of dosage on construction site in vehicles or ready-mixed concrete, please follow the corresponding rules.

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

### Technical Data for MC-Powerflow 5120

Characteristic	Unit	Value	Comments
Density	kg/m <sup>3</sup>	approx. 1.045	
Recommended Dosage	%	0.5 - 2.0	per kg of cement
Max. Chloride Content	% by weight	< 0.10	
Max. Alkali Content	% by weight	< 1.0	

### Product Characteristics for MC-Powerflow 5120

Type of Admixture	Superplasticizer EN 934-2: T3.1/3.2 (concrete plasticizer EN 934-2:T2)
Name of Admixture	MC-Powerflow 5120
Colour	Brown
Consistency	Liquid
Certificate of Conformity	0754-CPD-02-1066.2
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 tank trucks

Property specifications are based on laboratory test and may vary in practical applications. 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 07/19.** 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.