

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 ADVICE

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 VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Density	kg/dm ³	approx. 1.04	± 0.02 kg/dm ³
Recommended dosage range	g	2 - 50	per kg cement
Chloride content (maximum)	%	< 0.1	mass fraction
Alkaline content (maximum)	%	< 2	mass fraction

All technical values are laboratory results determined at 21°C ±2°C and 50% relative humidity.

Type of admixture	plasticiser per EN 934-2: T3.1/3.2, Concrete plasticisers EN 934-2: T 2
Designation of admixture	MC-PowerFlow 5100
colour shade	brownish
form	liquid
Notified body	MPA, Karlsruhe
In-company production control	DIN EN ISO 9001 / DIN EN 934-2/6
Certificate of conformity of in-company production control	0754-CPR
Colour code of label	yellow/grey
delivery form	30 kg canister, 200 kg barrel, 1000 kg IBC

Safety instructions

Please note the safety information and advice given on the packaging labels and safety data sheets. GISCODE : BZM10

Note: The information contained in this data sheet is based on our experience and is correct to the best of our knowledge. It is, however, not binding. It will need to be adapted to the requirements of the individual structure, to the specific application and to non-standard local conditions. Application-specific conditions must be checked in advance by the planning engineer/specifier and, where different from the standard conditions indicated, will require individual approval. Technical advice provided by MC's specialist consultants does not replace the need for a planning review by the client or its agents in respect of the history of the building or structure. Subject to this prerequisite, we are liable for the correctness of this information within the framework of our terms and conditions of sale and delivery. Recommendations of our employees deviating from the information given in our data sheets are only binding for us if they are confirmed in writing. In all cases, the generally accepted rules and practices reflecting the current state of the art must be observed. The information given in this technical data sheet is valid for the product supplied by the country company listed in the footer. It should be noted that data in other countries may differ. The product data sheets valid for the relevant foreign country must be observed. The latest technical data sheet shall apply to the exclusion of previous, duly superseded versions; the date of issue in the footer must be observed. The latest version is available from us on request or may be downloaded from our website. [2100004442]