

# MC-PowerFlow 1102

High-performance superplasticiser based on MC polymer technology



## PRODUCT PROPERTIES

- Above average water-reduction
- Economic dosage
- High early strength development
- High-quality concrete surfaces
- Free of corrosion promoting components

## AREAS OF APPLICATION

- Pre-cast elements, e.g. railway sleepers or tunnel segments
- Self-compacting concrete (SCC)
- Concrete with high resistance against aggressive agents
- Concrete with high fluidity
- Ready mixed concrete

## APPLICATION ADVICE

MC-PowerFlow 1102 is a synthetic superplasticizer based on the MC-Polycarboxylatether technology. The development of the initial strength is enhanced. Therefore MC-PowerFlow 1102 is especially appropriate to use in factories for precast elements and in producing prestressed 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 an unchanged water content the consistency can be increased by several consistency classes. The special combination of the active agent permits to produce homogenous concrete without segregation. Thereby MC-PowerFlow 1102 can achieve fair faced concrete with high-qualities. Subsequent cosmetical putty-work is minimized. MC PowerFlow 1102 can be used in combination with other MC admixtures. But in individual cases please ask for our advisory service for concrete technology.

MC-PowerFlow 1102 is added to the concrete during mixing. 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 of ready-mixed concrete, please follow the corresponding rules.

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

## TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Density	kg/dm <sup>3</sup>	approx. 1.06	± 0.02 kg/dm <sup>3</sup>
Recommended dosage range	g	2 - 50	per kg cement
Chloride content (maximum)	%	< 0.1	mass fraction
Alkaline content (maximum)	%	< 1.0	mass fraction

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

Self-monitoring	EN ISO 9001
Type of admixture	High range water reducing admixtures/superplasticizing admixture for concrete - EN 934-2:T3.1/3.2
Designation of admixture	MC-PowerFlow 1102
Colour	brown
Form	liquid
Notified body	Karlsruher Institut für Technologie (KIT) Materialprüfungs- & Forschungsanstalt, MPA Karlsruhe, Notified Body number: 0754
In-company production control	EN ISO 9001, EN 934-2/6
Colour code of label	yellow/grey
Delivery form	200 kg drums 1,000 kg container

### 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. [2300019874]