

# MC-PowerFlow evo 503

newest generation of MC-superplasticizers for highest requirements to the rheology of ready mixed concrete



## PRODUCT PROPERTIES

- Very fast mixing in concrete
- Efficient plastification
- Reliable long slump retention even under difficult conditions
- Optimized rheology of concrete
  - Reduced viscosity / stickiness
  - Good stability and robustness of the concrete
  - Improved pumpability and pumping stability
  - Good compactibility
- Good compatibility with air-entraining admixtures
- Free of corrosion promoting components

## AREAS OF APPLICATION

- Ready mixed concrete
- Concrete with high flowability
- Self-compacting concrete (SCC)
- Recycling concrete
- Good compatibility with clinker-reduced cements
- Optimized energy demand in production and placing

## APPLICATION ADVICE

MC-PowerFlow evo 503 is the result of the ongoing development and innovation of the PCE-technology of MC-Bauchemie. It was already developed under aspects of the future challenges to the production of RMC.

MC-PowerFlow evo 503 not only provides efficient and economic plastification but also a reliable long slump retention even under difficult conditions.

Additional dosage for a subsequent correction of the consistency on site is therefore in most cases no longer necessary.

MC-PowerFlow evo 503 supports significantly improved rheological properties of the concrete. The reduced stickiness leads to a very good pumpability and workability. The energy consumption for the production and processing of the concrete can be optimized.

The implementation of alternative materials like clinker-optimized binders, recycled aggregates or recycling water as well as materials with minor properties are supported.

MC-PowerFlow evo 503 is added to the concrete during mixing. It is most effective when added after the addition water. It requires relatively short mixing times to develop its full plasticizing effect.

Therefore, a fast and economic concrete production is assured.

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. 1.04	± 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)	%	< 0.5	mass fraction
Type of admixture	High range water reducing admixtures/superplasticizing admixture for concrete - EN 934-2:T3.1/3.2 , Water reducing/plasticizing admixture for concrete - EN 934-2:T2		
Designation of admixture	MC-PowerFlow evo 503		
Colour	bright yellow		
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 934-6		
Colour code of label	yellow/grey		
Delivery form	200 kg drum 1,000 kg container		

### Safety instructions

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

**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. [2300019821]