

MC-PowerFlow evo 301

Newest generation of MC-superplasticizers for highest requirements in precast concrete production



PRODUCT PROPERTIES

- Very efficient plastification
- Very high water reduction
- Optimized rheology of concrete
 - Reduced viscosity / stickiness
 - Good stability and robustness of the concrete
 - Excellent compactibility
- Fast strength development
- Economic dosage
- Free of corrosion promoting components

AREAS OF APPLICATION

- Precast concrete
- Fair-faced concrete
- Concrete with high flowability
- Self-compacting concrete (SCC)
- Concrete with high resistance against aggressive media
- High strength concrete
- Optimized energy demand in production and placing

APPLICATION ADVICE

MC-PowerFlow evo 301 is the result of the ongoing development and innovation of the PCE-technology of MC-Bauchemie.

MC-PowerFlow evo 301 significantly supports improved rheological properties of 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 special reaction mechanism enhances the development of high early strength. Therefore, MC-PowerFlow evo 301 is particularly suitable for the pre-cast concrete production.

MC-PowerFlow evo 301 provides stable concrete over a large consistency-range.

The implementation of clinker-optimized binders as well as materials with minor properties is supported.

MC-PowerFlow evo 301 is added to the concrete during mixing. It is most effective when added after the addition water.

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

TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Density	kg/dm ³	approx. 1.05	± 0.02 kg/dm ³
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 301		
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		

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. [2300019887]