

MC-PowerFlow 5695

High-performance superplasticizer based on the latest MC polymer technology



PRODUCT PROPERTIES

- Short mixing-time
- High-quality concrete surfaces
- Long slump retention
- Minimal adhesiveness
- High water-saving
- Economic dosage
- Free of corrosion promoting components

AREAS OF APPLICATION

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

APPLICATION ADVICE

MC-PowerFlow 5695 is a superplasticizer based on the newest MC-Polycarboxylatether-technology. A fast plastification results from a high adsorption rate.

Despite a well sustained consistence a special reaction mechanism enhances the development of high initial strength. Therefore MC-Powerflow 5695 is suitable for the pre-cast concrete production and the ready-mixed- concrete production as well.

MC-PowerFlow 5695 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 specific functioning-mechanism allows to produce concrete with extremely low water contents and high-performance concrete with excellent processing properties at economic dosages. The mixing-time is reduced noticeable.

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

MC-PowerFlow 5695 allows to produce high-tech concrete without increasing the adhesiveness. So the placing is easier and faster.

The special combination of the active agent permits to produce homogenous concrete without segregation. Thereby MC-PowerFlow 5695 can achieve high quality fair-faced concrete.

MC-PowerFlow 5695 can be used in combination with other MC admixtures. In individual cases please contact our concrete technology department for advice.

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)	%	< 2.0	mass fraction
Product system / Category	9		
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 5695	
Colour		yellowish 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, 1000 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. [2300019878]