

# MC-PowerFlow Perma 2

Slump-Keeper-Superplasticizer based on the newest MC-Polymer-Technology



## PRODUCT PROPERTIES

- Superplasticizer for extra long slump retention
- Low adhesiveness
- Good compatibility with air-entraining agent
- Free of corrosion promoting components
- Good water-reduction/plastification

## AREAS OF APPLICATION

- Ready mixed concrete
- Concrete with high flowability
- At high temperatures

## APPLICATION ADVICE

MC-PowerFlow Perma 2 is a synthetic superplasticizer based on the newest MC-Polycarboxylatether-technology.

In most cases it is used additional to the regular PCE-superplasticizer, to achieve an exceptionally good slump retention.

MC-PowerFlow Perma 2 has been developed to when provide long slump retention. 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.

At low temperatures a slight retardation may be the side effect at higher dosages. Therefore we recommended to check the individual concrete recipe concerning these effects.

MC-PowerFlow Perma 2 is added to the concrete during mixing. It is most effective added after the additional water. It is also possible to apply it with the added water.

MC-PowerFlow Perma 2 can be used in combination with other MC admixtures. In individual cases please ask for our advisory service for concrete-technology.

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	
Recommended dosage range	g	approx. 2 - 30	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	plasticiser per EN 934-2: T3.1/3.2, Concrete plasticisers EN 934-2: T2
Designation of admixture	MC-PowerFlow Perma 2
Colour shade	yellowish
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	200 kg drums 1,000 kg container Loose goods in 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. [2200009636]