

# MC-PowerFlow 3130

high-performance superplasticizer based on the newest MC-Polymer-Technology



## PRODUCT PROPERTIES

- Minimal adhesiveness
- Short mixing-time
- Above average water-saving
- High initial strength
- Rapid effect
- Free of corrosion promoting components
- Economic dosage
- High-quality concrete surfaces

## AREAS OF APPLICATION

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

## APPLICATION ADVICE

MC-PowerFlow 3130 is a superplasticizer based on the newest MC-Polycarboxylatether-technology. A strong plastification results from a high adsorption rate.

A special reaction mechanism enhances the development of high initial strength. Therefore MC-PowerFlow 3130 is particularly suitable for the pre-cast concrete production. It is possible to achieve high quality fair-faced concrete.

Therefore it is possible to achieve economic dosages. The mixing time is reduced and the dosage can be realized before or after adding water.

MC-PowerFlow 3130 provides concrete with reduced stickiness, improving the workability and placing. The special polymer-combination permits to produce homogenous concrete without segregation. The usage of MC-PowerFlow 3130 enables over the whole consistency range a stable, not segregating concrete. With an unchanged water content the consistency can be increased by several consistency classes.

MC-PowerFlow 3130 can be used in combination with other MC admixtures. In individual cases please contact our concrete technology department for advice.

Using it in ready-mixed concrete it is important in case of construction dosage in vehicle to have a look at the 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) | %                  | < 2.0        | 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 3130  |
| Colour                        | brown  |
| Form                          | liquid   |
| Notified body                 | Karlsruher Institut für Technologie (KIT) Materialprüfungs- & Forschungsanstalt, MPA Karlsruhe, Notified Body number: 0754 |
| In-company production control | 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. [2300019884]