

# MC-PowerFlow 1637

high-performance superplasticizer based on the newest MC-Technology



## PRODUCT PROPERTIES

- Above-average water savings
- High quality concrete surfaces
- Extended processing time of the concrete
- Good slump retention
- Shortened laying times
- High early strengths
- Economical dosages
- Free of corrosion-promoting constituents

## AREAS OF APPLICATION

- Precast elements
- High strength concrete
- High performance concrete
- Concrete with high resistance to aggressive media
- Ready-mix concrete
- Exposed concrete
- Highly flowable concrete
- Self-compacting concrete

## APPLICATION ADVICE

MC-PowerFlow 1637 is a synthetic superplasticizer based on MC polycarboxylate ether technology. Early strength development is favored. MC-PowerFlow 1637 is therefore particularly suitable for use in precast plants and for the production of prestressed concrete.

The special mechanism of action makes it possible to produce concretes with low total water contents and high-performance concretes with excellent workability properties.

With unchanged water content, consistency expansion over several consistency classes can be achieved. MC-PowerFlow 1637 allows a longer processing time of the concrete due to its good slump retention.

The special combination of active ingredients enables stable, segregation-free concretes to be produced over the entire consistency range.

As a result, high-quality fair-faced concrete can be achieved with MC-PowerFlow 1637. Subsequent cosmetic filling work is minimized.

MC-PowerFlow 1637 can be used with various other MC admixtures in concrete. In individual cases, please ask for our concrete technology advice.

When used in ready-mix concrete, the relevant regulations must be observed in case of on-site dosage into the vehicle.

MC-PowerFlow 1637 is added to the concrete during the mixing process. The best effectiveness is achieved by dosing after the addition water. Dosing with the addition water is also possible. The mixing time must be selected so that the admixture can fully develop its liquefying effect during the mixing process.

Please observe the "General instructions for the use of concrete admixtures".

## TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Density	kg/dm <sup>3</sup>	approx. 1.05	± 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)	%	< 1.5	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 , Plasticizing admixture for concrete (EN 934-2: T2)
Designation of admixture	MC-PowerFlow 1637
Colour	brown
Form	liquid
Notified body	Karlsruhe Institute of Technology (KIT), Materials Testing and Research Institute, 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

### 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. [2400024686]