

# MC-TechniFlow 104

superplasticizer and concrete plasticizer for the production of ready-mixed concrete



## PRODUCT PROPERTIES

- PCE-based (polycarboxylate ether)
- Intensive dispersion of cement paste
- Good homogeneity of the concrete due to the chemical-physical effect
- Application, spreading and compacting of concrete is made easier
- Slight retarding effect
- Cost effective dosage
- Free of corrosion-promoting agents

## AREAS OF APPLICATION

- Ready mixed and job-mixed concrete
- Pumped concrete
- Exposed and fairfaced concrete

## APPLICATION ADVICE

MC-TechniFlow 104 is a concrete plasticizer and superplasticizer based on a formulated combination of active ingredients with PCE components

MC-TechniFlow 104 is designed especially for the production of ready-mixed concrete and can be used in combination with all standard cement types.

MC-TechniFlow 104 is characterized by its robustness in application and in interaction with the other concrete constituents (cement, fly ash, granulated blastfurnace slag, etc.).

MC-TechniFlow 104 reduces the surface tension of the water. As well as having an intense dispersing effect, this results in strong plastification of the concrete, even if the amounts added are small. The agglomeration of cement particles is reduced. The cement is better wetted and finely broken up. This creates easily workable concrete which requires little compaction.

Depending on the chosen type of cement, as well as on the temperature and weather conditions, there might be a slight retarding side effect. This can be determined with a suitability test.

MC-TechniFlow 104 is added to the concrete during mixing. It is most effective when added after the additional water. It is also possible to apply it with the added water. The mixing time should be long enough to allow the admixture to unfold its plasticizing effect during mixing.

Storage tanks should be cleaned regularly, to prevent the formation of sediment from inert suspended particles.

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. 1.02	± 0.02 kg/dm <sup>3</sup>
Recommended dosage range	g	2 - 30	per kg cement
Chloride content (maximum)	%	≤ 0.1	
Alkaline content (maximum)	%	≤ 0.5	
Self-monitoring	EN ISO 9001		
Type of admixture	Plasticizing admixture for concrete (EN 934-2: T2), High range water reducing admixtures/superplasticizing admixture for concrete - EN 934-2:T3.1/3.2		
Designation of admixture	MC-TechniFlow 104		
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		
Delivery form	230 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. [2400022378]