

MC-TechniFlow 41

concrete plasticizer for the production of ready-mixed concrete



PRODUCT PROPERTIES

- Intensive dispersion of cement paste
- Decreases the internal frictional forces within the concrete
- Application, spreading and compacting of concrete is made easier
- Reduces early stiffening and hardening
- Long-lasting plasticizing effect
- Retarding effect
- Good homogeneity of the concrete due to the chemical-physical effect
- Cost effective dosage
- Free of corrosion-promoting agents

AREAS OF APPLICATION

- Ready mixed and job-mixed concrete

APPLICATION ADVICE

MC-TechniFlow 41 is a midrange concrete plasticizer based on a new combination of raw material. It is designed especially for the production of ready-mixed concrete and can be used in combination with all standard cement types.

MC-TechniFlow 41 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 aggregation of cement particles is reduced. The cement is better wetted and finely broken up. This creates easily workable concrete which requires little compaction.

Without increasing water content, it is possible to enhance the consistency by several consistency classes.

MC-TechniFlow 41 can be used in combination with other MC admixtures, please ask our concrete technology-consulting service for further information. MC-TechniFlow 41 can be added on site.

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

MC-TechniFlow 41 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 ³	approx. 1.03	± 0.02 kg/dm ³
Recommended dosage range	g	2 - 20	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	Concrete admixture for significant water reduction/liquefaction, according EN 934-2:2009+A1:2012
Designation of admixture	MC-TechniFlow 41
Colour	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
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. [2300018361]