

MC-TechniFlow 33

Concrete plasticisers/superplasticisers



PRODUCT PROPERTIES

- Suitable to use in combination with clay-rich sand
- Good slump retention
- Cost effective dosage
- Intensive dispersion of the cement paste
- Easier application, spreading and compacting
- Decreases internal frictional forces within the concrete
- Free of corrosion promoting components

AREAS OF APPLICATION

- Ready-mixed concrete
- Concrete for road constructions

APPLICATION ADVICE

MC-TechniFlow 33 is a concrete plasticizer/superplasticizer based on the newest MC-Polymer technology. It is designed for the production of ready-mixed concrete and can be used in combination with all standard cement types.

MC-TechniFlow 33 features a robustness in application and interaction with other concrete additives (for example cement, fly ash, blast furnace slag or clay containing sand).

MC-TechniFlow 33 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.

If MC-TechniFlow 33 is used to reduce the demand for added water and the resulting concrete has improved solid concrete properties (compressive strength, durability).

Depending on the type of cement used, 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 33 is added to the concrete during mixing. It is most effective when added after the additional water is added. Mixing time should be chosen such that MC-TechniFlow 33 can develop its plasticizing effect.

MC-TechniFlow 33 can be additionally dosed on site regardless which plasticizing admixtures have been added to the mixture at the concrete plant.

Please note the "General Information on the Use of Concrete Admixtures".

TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Density	kg/dm ³	1.04	
Recommended dosage range	g	2 - 30	per kg cement
Chloride content (maximum)	%	< 0.1	mass fraction
Alkaline content (maximum)	%	< 2.5	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 , Water reducing/plasticizing admixture for concrete - EN 934-2:T2
Designation of admixture	MC-TechniFlow 33
Colour	brownish
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/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. [2300019861]