

# MC-FastKick 111

Hardening accelerator



## PRODUCT PROPERTIES

- Accelerates the hardening of concrete and mortar
- Conform to the functional group superplasticizers according to EN 934
- Free of chlorides
- Liquid
- Plasticizing/water reducing effect

## AREAS OF APPLICATION

- Pre-cast industry
- Enhances early strength
- To shorten production cycles
- Early high strength ready-mix concrete
- Concreting in winter period

## APPLICATION ADVICE

MC-FastKick 111 is allowed in Germany to be used in reinforced concrete according to DIN EN 206-1 in combination with DIN 1045-2, but not allowed to be used in pre-stressed concrete.

According to the European standard EN 934-2 the use of certain substances has to be declared.

MC-FastKick 111 contain the following components from EN 934-1:2008 Annex A.2: Formate.

With MC-FastKick 111 a faster hardening of the concrete is achieved. There is no influence on the workability of the concrete.

The retardation of hardening at low temperatures is compensated.

The accelerating effect depends on the reactivity of the cements in use and the water/cement ratio.

During initial type testing the dosage has to be evaluated to achieve the necessary early strength and the other required properties.

MC-FastKick 111 can be used in combination with other MC admixtures. But in individual cases please ask for our advisory service for concrete technologies.

If used in combination with a plasticizing admixture this admixture should not be based on naphthalene and melamine sulfonates.

MC-FastKick 111 is added to the concrete during mixing. It is most effective when added after the addition water. The mixing time should be long enough to allow the admixture to unfold its effect. It is advised to use a mixing time of at least one minute. In case of dosage on building site in vehicles of ready-mixed concrete, please follow the corresponding set of 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. 1.07	± 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)	%	< 4.0	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	Hardening accelerator per EN 934-2: T7, 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-FastKick 111
Colour	white
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
Storage	Can be stored in original sealed packages at temperatures between 5°C and 30°C in dry conditions for at least 12 months.
Colour code of label	green
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.



**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. [2400020630]