

# Centrament Rapid 500

Hardening accelerator



## PRODUCT PROPERTIES

- Free of chlorides
- Accelerates the hardening of concrete and mortar
- Early strength increase at lower ambient temperatures
- Increased speed of de-moulding cycles in Pre-cast concreting

## 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

With Centrament Rapid 500 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.

According to the european standard EN 934-2 the use of certain substances has to be declared. Centrament Rapid 500 contains the following components from EN 934-1:2008 Annex A.2: Nitrates, thiocyanates.

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 concrete properties.

Centrament Rapid 500 is added to the concrete during mixing. It is most effective when added after the addition water. It is also possible to dose it with the added 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 1 minute.

Centrament Rapid 500 can be used in combination with other MC admixtures. But in individual cases please ask for our advisory service for concretetechnologies.

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

## TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Density	kg/l	approx. 1.39	$\pm 0.03$ kg/dm <sup>3</sup>
Recommended dosage range	g	2 - 50	per kg cement
Chloride content (maximum)	%	$\leq 0.1$	mass fraction
Alkaline content (maximum)	%	$\leq 5.0$	mass fraction

All technical values are laboratory results determined at 21°C  $\pm 2^\circ$ C and 50% relative humidity.

Self-monitoring	EN ISO 9001
Type of admixture	Hardening accelerator per EN 934-2: T7
Designation of admixture	Centrament Rapid 500
Colour	yellowish 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
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. [2400020625]