

# Centrament Retard 310

Hardening retarder with plasticising effect



## PRODUCT PROPERTIES

- Retardation of setting and hardening of cementitious materials
- Free of corrosion promoting components
- Plasticizing effect
- Improves the properties of the cured concrete:
  - More homogenous concrete
  - Higher compressive and tensile strengths possible
  - Increased water impermeability possible

## AREAS OF APPLICATION

- Ready-mixed concrete
- Reduction of joints

## APPLICATION ADVICE

Centrament Retard 310 is a setting retardant with a good plasticising effect, free of chlorides and other corrosion promoting components.

Centrament Retard 310 has the following effects on fresh concrete:  
Improves the workability within a desired processing period.

Reduces working joints.

Allows a recompacting or later compacting (re-vibration), as the concrete remains in its green phase over a longer period of time.

A retarded concrete usually has an increased final strength.

Centrament Retard 310 can be used with all standard cements. It is added during mixing.

The prescribed mixing times, as well as the relevant regulations for the manufacture, processing and curing of setting retarded concrete have to be etc. complied with.

The necessary suitability tests have to be performed.

The setting retardation is very much dependant on the type of cement, concrete and ambient temperature, the concrete composition and other factors. The necessary dosage should be determined by trial under site-conditions. If any of the conditions are expected to change during construction, adjusted trial should be performed under the changed conditions.

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. 1.2	± 0.03 kg/dm <sup>3</sup>
Recommended dosage range	g	2 - 50	per kg cement
Chloride content (maximum)	%	< 0.1	mass fraction
Alkaline content (maximum)	%	< 1.0	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	retarder per EN 934-2: T8
Designation of admixture	Centrament Retard 310
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	red

### 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. [2300018431]