

MC-Centrament Retard 100

Retarding water reducing admixture for Roller Compacted Concrete (RCC).

PRODUCT DESCRIPTION:

- **MC-Centrament Retard 100** is a chloride free water reducing admixture specifically designed for roller compacted concrete (RCC) and mass concrete. The product is supplied in liquid form, dispersing immediately in water.
- **MC-Centrament Retard 100** helps delay the initial hydration process of cement, resulting in a slower setting time of concrete without adversely affecting the process of subsequent stiffening and strength gain.

PRODUCT PROPERTIES:

- Extend the initial setting time of concrete, to allow time for proper placement and compacting new layer on Roller Compacted Concrete (RCC).
- Reduces the rate of heat generation of cement hydration, preventing cracking risks.
- Increase the density of RCC.
- Reduce the volume of concrete's bonding mortar.
- Increase cement efficiency.
- Chloride free, safe to use.

AREAS OF APPLICATION:

- Particularly suitable for use in mixes having fly ash and also improve the working life of semi dry concrete mixes, specifically Roller Compacted concrete (RCC).
- Structure concrete, mass concrete using on high ambient temperature and need longer setting time.
- Long travel times from the concrete plant to the site.

DOSAGE AND IMPORTANT CONSIDERATION:

- The optimum dosage of **MC-Centrament Retard 100** to meet specific requirements should always be determined by trials using the materials and conditions that will be experienced in use. This allows the optimisation of admixture dosage and mix design and provides a complete assessment of the concrete mix.
- Dosage is from 0.25 - 1.8 liters/100 kg of of cementitious material.
- Dosages outside the typical range quoted above may be used if necessary and suitable to meet particular mix requirements, provided that adequate supervision is available. Compliance with requirements must be assessed through trial mixes. MC-Bauchemie shall be contacted for advice in these cases.

APPLICATION INSTRUCTIONS:

- **MC-Centrament Retard 100** is compatible with other MC-Bauchemie admixtures used in the same concrete mix. All admixtures should be added to the concrete separately and must not be mixed together prior to addition.
- **MC-Centrament Retard 100** is added to the gauging water prior to its addition to the dry mix or added separately to the wetted concrete mix. Recommend a minimum wet mixing time of 1 min.
- **MC-Centrament Retard 100** is compatible with all Portland Cement types.

TECHNICAL DATA:

Characteristic	Unit	Value	Comment
Density	g/cm ³	1.25 ± 0.03	
Max. chloride content	%	< 0.1	

PRODUCT CHARACTERISTICS:

Standard	Complies with ASTM C494 & TCVN 8826 Type B		
Consistency	Liquid		
Expiry	8 months		
Form of delivery	200 L drums 1000 L IBC tanks Tank trucks		

Property specifications are based on laboratory tests and may vary in practical application. To determine the individual technical suitability, preliminary suitability tests should be carried out under the application conditions.

Color: Admixture's color can be changed due to the reaction between polymer component within admixture's composition with UV from sunlight. This phenomenon does not affect to admixture's quality in its shelf-life. We recommend users to store product into covered area to protect from direct sunlight in order to avoid mentioned changing.

Note: The information on this data sheet is based on our experiences and correct to the best of our knowledge. It is, however, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale-delivery-and-service. Recommendations of our employees which differ from the data contained in our information sheets are only binding if given in written form. The accepted engineering rules must be observed at all times.

Edition **06/2024**. Some technical changes have been made to this print medium. Older editions are invalid and may not be used anymore. If a technically revised new edition is issued, this edition becomes invalid.