

Centrament Retard K 33

(Formerly known as MC Erstarrungsbremse K 33)



Chloride free Concrete Retarder with Plasticizing Properties

Product Properties

- Chloride free
- Admixed with all types of standard cements
- Concrete retarder with plasticizing properties
- Set retarder and plasticizer
- Increases workability

Areas of Application

- For Piling, Pre-stressed concrete work
- For bridge building, ready-mix concrete
- Can also be used in mass concreting
- Can be admixed with all type of standard cements

Application Notes

General

Centrament Retard K 33 is a set retarder and plasticizer, formulated to delay the initial set rate of concrete, and increase workability. It is recommended for piling concrete, pre-stressed concrete work, bridge building, ready-mix, and mass concrete.

Advantages

The use of **Centrament Retard K 33** enables, successive batches of concrete to set at the same time, and eliminates the risk of cold joints in monolithic structures. It also resists the accelerating effect in high temperatures, and thereby reduces the possibilities of thermal cracking. It permits transportation of readymix concrete over long distances, and increase the time factor for placing and compaction.

Centrament Retard K 33 does not act, as an air entraining agent and its use will increase the 7 and 28 days compressive strength of concrete. After the initial retardation normal hardening of the concrete takes place, which, in comparison to that of conventional concrete, gives a longer workability.

Centrament Retard K 33 does not contain chlorides. **Centrament Retard K 33** complies with ASTM C 494.

Instructions for Use

Centrament Retard K 33 may be used with all types of cements. It is added during the mixing operations by means of suitable dosing devices but may also be added to the gauging water. The use of **Centrament Retard K 33** will also improve the 7 and 28 days compressive strength of the placed concrete.

The result of **Centrament Retard K 33** can be best assessed after preliminary tests on site. This should be carried out using the actual cement and aggregates required, and in such temperatures that will be used during placing and in accordance to necessary setting time required. Preliminary trials are required to establish suitable dosage in individual cases.

Further Instructions / Precautions

- To determine individual technical suitability, preliminary tests should be carried out under application conditions. We shall be glad to assist you for your concrete technology testing/needs.
- Relevant standards for production, placing and curing of concrete should be followed.
- Efficient curing is essential for any concrete and is best-achieved using Emcoril range of curing compounds. This will avoid negative effects of quick water loss from the concrete.
- Depending upon the concrete mix severe over dosage of the admixture especially retarding plasticizers and superplasticizers may result in bleeding/segregation of concrete, quick loss of workability, extended initial and final setting times etc.
- Slight overdosing may not severely affect the ultimate strength of concrete provided the concrete is properly mixed, handled and placed and adequately compacted and cured.

Centrament Retard K 33 providing workability and set retardation



Technical Data for Centrament Retard K 33

Characteristic	Unit	Value	Comments
Density	Grams / cm ³	1.15	± 0.02
Mixing ratio	% By weight of cement	0.2% to 1.0%	Approximately, optimum dosage depends on preliminary trials.

Product Characteristics for Centrament Retard K 33

Type of Product	Concrete Retarder
Form	Liquid
Colour	Brownish
Shelf Life	12 Month from date of Manufacture
Delivery	250 Kg drums and 30 Kg pails
Storage	In Unopened Packaging. Protect from Rain, Direct Sunlight, Heat and Frost
Disposal	Empty packs completely and dispose off carefully to protect our Environment

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 may 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. E. & O.E.

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