

CEMENTIUM™ 2350 ES (Formerly known as Cementium 250ES)

High Performance Early Strength Enhancer for Cements

DESCRIPTION

CEMENTIUM 2350 ES is a highly effective early strength enhancer and formulated with high end raw materials to guarantee superior performance of the product.

CEMENTIUM 2350 ES is an aqueous non-chloride modified alkanolamine mixture.

CEMENTIUM 2350 ES is compatible with all types of cement. It complies with ASTM C465-99 as a non-harmful processing additive.

FIELDS OF APPLICATION

- Ordinary Portland cement.
- Blended cement with limestone, fly ash or slag.

The special characteristics of **CEMENTIUM 2350 ES** effectively activate the hydration process between cement particles and the non-reactive or reactive fillers.

For additional information on **CEMENTIUM 2350 ES** and its use in developing special performance characteristics, contact your local BASF Construction Chemicals Sales field representative.

FEATURES AND BENEFITS

CEMENTIUM 2350 ES considerably increases cement early strength better than conventional grinding aids or early strength enhancer. It is very effective as the catalyst for the early hydration of the cement particles and improving the reaction between C_3A and gypsum to produce C_3A -hydration products which overall improves the early strength of cement.

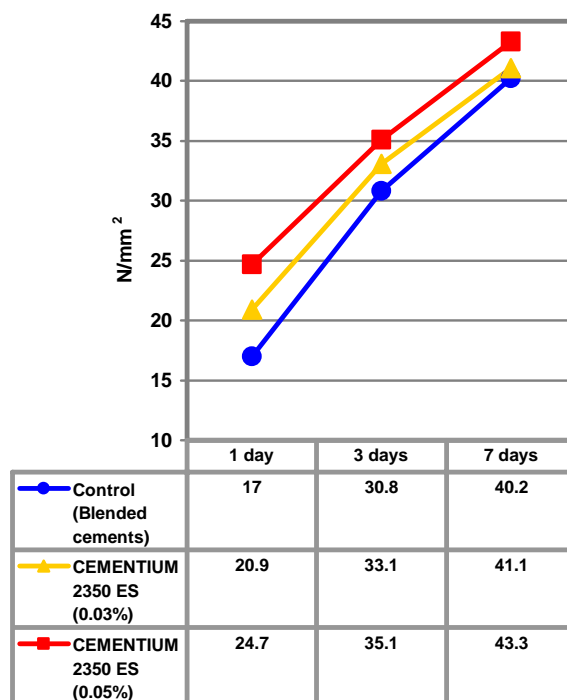
CEMENTIUM 2350 ES also performs as a cement grinding aid. These characteristics contribute to the following:

- Increased cement mill output at the same cement fineness between 6% and 15%.
- Reduced total cement production by reducing grinding costs per ton of cement and replacing clinker with other fillers.
- Increased early strength of cement between 15% and 30%.
- Improved cement dry flowability.

TYPICAL PERFORMANCE DATA

CEMENTIUM 2350 ES increases the early strength of cement.

Cement Early Comparison of Blended Cements
(Blaine Size 3600-3800 cm^2/g)
(Portland + Limestone 10% + PFA 5%)



APPLICATION

Dispensing

CEMENTIUM 2350 ES can be added at the clinker feed conveyer belt or directly into the cement mill's first compartment. A proper dosing pump is required to ensure the correct dosage into the cement for obtaining the optimum performance. Our technical supports are available to provide assistance in the use of **CEMENTIUM 2350 ES** with the manual, automatic or computerized dispensing system.

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The Chemical Company

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DOSAGE

The typical dosage rate for **CEMENTIUM 2350 ES** is as per the table below:

Type of Cement	Dosage Rate (gram / ton cement)
Ordinary Portland	300 – 500
Other Hydraulic cements	300 – 500

The strength development of cement is influenced by the chemical and physical composition of the basic ingredients of the cement, grinding process parameters and clinker characteristics. Plant trial or laboratory scale ball mill test is recommended to determine the optimum dosage required to achieve specific requirements.

Higher dosage might be needed for higher percentage of clinker replacement or less reactive cement.

PACKAGING

CEMENTIUM 2350 ES is supplied in 210L sealed drums, 1000L IBC tanks and bulk delivery.

SHELF LIFE

CEMENTIUM 2350 ES can be stored for 12 months if stored at temperatures above 5°C, in tightly sealed original packaging. If found to be frozen, thaw it at 20°C and reconstitute by stirring.

PRECAUTIONS

CEMENTIUM 2350 ES is not a fire or health hazard. Spillages should be washed down immediately with cold water.

For detailed health, safety and environmental recommendations, please consult and follow all instructions in the product Material Safety Data Sheet.

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STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this **BASF Construction Chemicals** publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by **BASF Construction Chemicals** either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not **BASF Construction Chemicals**, are responsible for carrying out procedures appropriate to a specific application.