



The Chemical Company

CEMENTIUM™ 3350 LS (Formerly known as Cementium 250LS)

High Performance Late Strength Enhancer for Cements

DESCRIPTION

CEMENTIUM 3350 LS is specially formulated as the high performance late strength enhancer for cements.

CEMENTIUM 3350 LS is an aqueous modified polymeric sugar mixture. Its innovative technology allows optimum cement hydration to provide higher late strength.

CEMENTIUM 3350 LS 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.
- Other Hydraulic cement with limestone, fly ash or slag.

For additional information on **CEMENTIUM 3350 LS** and its use in developing special performance characteristics, contact your local BASF Construction Chemicals Sales field representative.

FEATURES AND BENEFITS

CEMENTIUM 3350 LS contains molecules which adsorb at the cement interstitial layer and react accordingly to enhance cement hydration process. It also creates electrostatic repulsion effects between flocculated cement particles which allow more surface area for cement hydration. Further reactions with cement particles promote precipitation and nucleation processes that contribute to improved development of cement strength.

Additional benefit of **CEMENTIUM 3350 LS** is its ability to reduce air content in the cement paste and concrete. This contributes to higher late strength in cement and concrete.

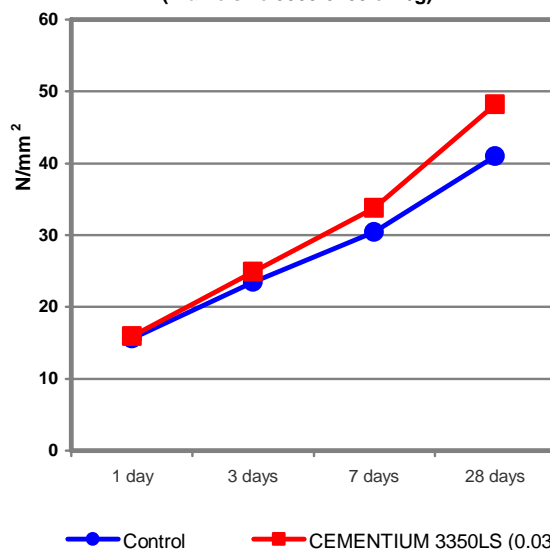
These characteristics contribute to the following benefits to cement manufacturers:

- 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 late strength of cement in particular between 10% and 30%.
- Improved cement workability due to particles repulsion effects.
- Improved cement dry flowability.
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TYPICAL PERFORMANCE DATA

CEMENTIUM 3350 LS increases the late strength of cement at the same cement Blaine size.

Late Strength Development with **CEMENTIUM 3350LS** Ordinary Portland Cement (Blaine size 3000-3200 cm²/g)



Sample	Compressive Strength (N/mm ²)			
	1 day	3 days	7 days	28 days
Control	15.6	23.5	30.4	41.0
CEMENTIUM 3350 LS (0.03%)	17.9	26.0	34.8	50.0

APPLICATION

Dispensing

CEMENTIUM 3350 LS 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 3350 LS** with the manual, automatic or computerized dispensing system.

BASF Construction Chemicals offices in ASEAN

Singapore
Tel :+65-6861-6766
Fax :+65-6861-3186

Malaysia
Tel :+60-3-5628-3888
Fax :+60-3-5628-3776

Indonesia
Tel :+62-21-526-2481
Fax :+62-21-526-2541

Thailand
Tel :+66-2204-9427
Fax :+66-2664-9267

Vietnam
Tel :+84-650-3743-100
Fax :+84-650-3743-200

Philippines
Tel : +63-2-889-4321
Fax : +63-2-889-4361



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DOSAGE

The typical dosage rate for **CEMENTIUM 3350 LS** is as per the table below:

Type of Cement	Dosage Rate (gram / ton cement)
Ordinary Portland	200 – 400
Other hydraulic cements	300 – 600

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.

PACKAGING

CEMENTIUM 3350 LS is supplied in 210L sealed drums, 1000L IBC tanks and bulk delivery.

SHELF LIFE

CEMENTIUM 3350 LS 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 3350 LS 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.

AN/C3350LS/v1/020409

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.