



The Chemical Company

CEMENTIUM™ 4300 SW (Formerly known as Cementium 200SW)

Cement Additive to Increase overall Quality, Grinding Efficiency and Inhibit Pack Set

DESCRIPTION

CEMENTIUM 4300 SW is the product of the latest development in cement additives for blended cements.

CEMENTIUM 4300 SW is an aqueous modified alkanolamines mixture. Its technology allows better cement hydration and cement workability to provide the quality performance equal or better than Ordinary Portland Cement.

CEMENTIUM 4300 SW 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 with minimum 5% limestone addition.
- Other Hydraulic cements with limestone, fly ash or slag.

CEMENTIUM 4300 SW applications mainly depend on the blended cements materials composition and quality performance criteria. Therefore, initial laboratory trial is recommended in order to achieve the optimum results.

For additional information on **CEMENTIUM 4300 SW** and its use in developing special performance characteristics, contact your local BASF Construction Chemicals Sales field representative.

FEATURES AND BENEFITS

CEMENTIUM 4300 SW effectively increases both early and late strength and improves cement workability by adsorbing to cement particles and creates electrostatic and steric repulsion effects. This phenomenon allows for better cement particles dispersion and consequently results in better cement hydration and the workability of cement mortar.

CEMENTIUM 4300 SW offers several important benefits to cement manufacturers:

- Increased cement mill output at the same cement fineness from 6% to 20%.
- Reduced total cement production by reducing grinding costs per ton of cement and replacing clinker with other fillers.
- Increased early and late strength of cement ranging from 5% to 40%.
- Improved cement and concrete workability and flowability.

APPLICATION

Dispensing

CEMENTIUM 4300 SW 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 4300 SW** with the manual, automatic or computerized dispensing system.

DOSAGE

The typical dosage rate for **CEMENTIUM 4300 SW** is as per the table below:

Type of Cement	Dosage Rate (gram / ton cement)
Ordinary Portland	200 – 400
Other Hydraulic cements	300 – 1500

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 4300 SW is supplied in 210L sealed drums, 1000L IBC tanks and bulk delivery.

SHELF LIFE

CEMENTIUM 4300 SW 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 4300 SW 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.
