



The Chemical Company

# CEMENTIUM™ 5300 AE (Formerly known as Cementium 200AE)

## Cement Additive to Increase Air Content in Masonry Cement

### DESCRIPTION

**CEMENTIUM 5300 AE** is an aqueous solution of anionic and non-ionic surfactants.

**CEMENTIUM 5300 AE** is formulated to provide better grinding efficiency and more entrained air in the Masonry cement.

**CEMENTIUM 5300 AE** is compatible with all types of cement. It complies with ASTM C465-99 as a non-harmful processing additive.

### FIELDS OF APPLICATION

- Masonry Cement

For additional information on **CEMENTIUM 5300 AE** and its use in developing special performance characteristics, contact your local BASF Construction Chemicals Sales field representative.

### FEATURES AND BENEFITS

**CEMENTIUM 5300 AE** is developed with the most active surfactants that can create and stabilize the formation of bubbles in the mortar phase of Masonry cement. The bubbles behave as ball bearings that improve workability of Masonry cement. In addition, it also helps in reducing bleeding, shrinkage and segregation of the cement.

**CEMENTIUM 5300 AE** contributes the following benefits to cement manufacturers

- Increased cement fineness with the addition of **CEMENTIUM 5300 AE**.
- Increased entrained air content in Masonry cements with low addition rates.
- Improved Masonry cement and concrete workability.

### TYPICAL PERFORMANCE DATA

**CEMENTIUM 5300 AE** typical performance is as per the following:

Parameter	Range
1. Dosage	300 – 500 gram/ton
2. Air Content	13% - 25%
3. Flowability	Min 100%

### APPLICATION

#### Dispensing

**CEMENTIUM 5300 AE** 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 5300 AE** with the manual, automatic or computerized dispensing system.

### DOSAGE

The typical dosage rate for **CEMENTIUM 5300 AE** is as per the table below:

Type of Cement	Dosage Rate (gram / ton cement)
Masonry Cement	300 – 500

The air entrainment and workability of Masonry 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 5300 AE** is supplied in 210L sealed drums, 1000L IBC tanks and bulk delivery.

### SHELF LIFE

**CEMENTIUM 5300 AE** 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 5300 AE** 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.

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