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# MasterCem<sup>®</sup> AE 5300

High Performance Cement Additive to Increase Air Content in Masonry Cement

## DESCRIPTION

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

**MasterCem AE 5300** is specially formulated to provide superior workability and placeability of the Masonry cement.

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

## FIELDS OF APPLICATION

- Masonry Cement

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

## FEATURES AND BENEFITS

**MasterCem AE 5300** is specially developed with the most active surfactants and effective bonding agent that increase the formation of bubbles in the cement mortar and provide excellent surfaces bonding between the cement mortar and the dry/damp concrete. These double actions improve the Masonry cement workability and placeability significantly.

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

- Increased entrained air in Masonry cements.
- Improved workability of cement paste.
- Improved the plastering characteristics of cement paste.
- Improved cohesion, reduced segregation and bleeding of cement paste.
- Provided closed textured surface, dense and uniform cement paste.

## TYPICAL PERFORMANCE DATA

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

Parameter	Range
1. Dosage	500 – 1200 gram/ton
2. Air Content	15% - 25%
3. Flowability	Min 103%

## APPLICATION

### Dispensing

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

## DOSAGE

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

Type of Cement	Dosage Rate (gram /ton cement)
Masonry Cement	500 – 1200

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

**MasterCem AE 5300** is supplied in 210L sealed drums, 1000L IBC tanks and bulk delivery.

## SHELF LIFE

**MasterCem AE 5300** 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

**MasterCem AE 5300** 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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® = registered trademark of BASF group in many countries

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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.

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## 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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