

MasterCem[®] SW 4307

Cement Performance Enhancer

DESCRIPTION

MasterCem SW 4307 is a composition of hydroxyl-containing organic chemicals and polyamine base formulated specifically to improve the milling grindability and cement quality performance for the production of Portland and other hydraulic cement types. High end raw materials are used in order to guarantee a superior performance of the product.

MasterCem SW 4307 is highly recommended for use on both the horizontal ball mill and vertical roller mill applications. The enhancing effect towards the cement quality is due to the promoted hydration reaction phase, better workability rheology and improved Particle Size Distribution structure.

COMPLIANCES

MasterCem SW 4307 is compatible with all types of cement. It complies with ASTM C465-99 as a non-harmful processing additive.

ADVANTAGES

The main advantage of **MasterCem SW 4307** at low dosage with a promising results optimally:

- Reduced cement agglomeration phenomenon for better grinding efficiency.
- Coating reduction – grinding media, internal liners, diaphragm, rollers, grinding table, separator internal parts, etc.
- Increased in cement compressive strength at all ages mainly towards the early stage.
- Increased in cement mill output at the same cement fineness up to 15% depending on the raw materials quality supplied. Directly influence the production cost per ton of cement produced.
- Better workability rheology for later application.

CHARACTERISTICS

Appearance	Liquid
Color	Light to Dark Brown
Shelf Life	12 months
pH	12 - 14
Specific gravity (kg/L)	1.055 – 1.095

APPLICATION

Dispensing

It is recommended that **MasterCem SW 4307** to be dispensed at the clinker conveyer belt. However, Master Builders Solutions representatives will advise the best location for the dispenser to be located. No water addition is necessary. A proper dosing pump is required to ensure a correct and consistent dosage into the system to obtain the desired optimum performance. Technical support is available to provide assistance in the use of **MasterCem SW 4307** with the manual, automatic or computerized dispensing system.

DOSAGE

MasterCem SW 4307 is used at a recommended standard dosage rated by weight of cement. Individual dosage may vary due to different type of clinker, type of mill, desired results and job or task conditions. The recommended amount is 0.03 - 0.05% by weight of cement produced.

PACKAGING

MasterCem SW 4307 is supplied in bulk delivery and 1000KG IBC.

SHELF LIFE

MasterCem SW 4307 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 SW 4307 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.

TECHNICAL SERVICES

Master Builders Solutions representative will be available for laboratory scale mill test and actual plant trial where necessary. Technical service & support such as troubleshooting can also be provided.

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STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this MBCC Group 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 MBCC Group either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not MBCC Group, are responsible for carrying out procedures appropriate to a specific application.

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