

# MasterCem<sup>®</sup> LS 3353

Cement Performance Enhancer

## DESCRIPTION

**MasterCem LS 3353** is a chemically combined composition of ionic halides together with an organic chemical compound which is both a tertiary amine and a triol, formulated specifically to improve the milling grindability 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 LS 3353** can be used for any type of milling process whether it is a horizontal ball mill or vertical roller mill applications. It is an effective grinding agent together with the enhancing property towards the cement compressive strength due to the promoted hydration reaction phases and improved Particle Size Distribution.

## COMPLIANCES

**MasterCem LS 3353** is compatible with all types of cement. It complies with ASTM C465-99 as a non-harmful processing additive.

## ADVANTAGES

The advantages of **MasterCem LS 3353**:

Reduced cement agglomeration phenomenon for better grinding efficiency.

Coating reduction – grinding media, internal liners, diaphragm, separator internal parts, rollers, grinding table, etc.

Specifically designed to increase cement compressive strength at all ages especially towards the late compressive strength due to chemically and hydraulically improve reaction.

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.

## CHARACTERISTICS

Appearance	Liquid
Color	Darkish Brown
Shelf Life	12 months
pH	9.0 – 11.0
Specific gravity (kg/L)	1.00 – 1.15

## APPLICATION

### Dispensing

It is recommended that **MasterCem LS 3353** 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. Our technical support is available to provide assistance in the use of **MasterCem LS 3353** with the manual, automatic or computerized dispensing system.

## DOSAGE

**MasterCem LS 3353** 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 LS 3353** is supplied in bulk delivery, 1000L IBC tank and/or 205L sealed drum.

## SHELF LIFE

**MasterCem LS 3353** 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 LS 3353** 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.

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**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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