

## MasterCem LS 3122

Cement additive engineered for enhancement of cement late strength and reduction of unit grinding energy / increase of cement mill throughput.

#### **DESCRIPTION OF PRODUCT**

MasterCem LS 3122 is a liquid, ready-to-use cement additive designed to enhance cement performance. In addition to acting as a Grinding Aid in the milling process and a flow aid in cement conveyance, MasterCem LS 3122 improves specific cement properties by the activity of its chemical components. These act in the modification of clinker characteristics and in the enhancement of its hydraulic properties.

Products of the **MasterCem LS 3000** series are specifically designed to increase late strength of cement. These benefits can be used either for achieving superior product performance or for cement optimization while maintaining the original performance level. Typical late strength improvement is +5-15% at 28 days vs. plain control. However, product performance is dependent on grinding equipment characteristics, process conditions, raw material properties and cement type. To best benefit from cement additives, mill and separator process parameters may need to be adapted.

**MasterCem LS 3122** improves the flow characteristics of cement with positive impact on cement conveyance and reduction of pack-set in storage silos.

#### FIELDS OF APPLICATION

**MasterCem LS 3122** is developed for application in the cement grinding process in:

- Ball mills (closed and open circuits)
- Vertical mills
- · Other cement grinding systems

#### **TECHNICAL DATA**

Appearance	Reddish brown liquid
Density @ 25°C	1.030 - 1.080 g/cm <sup>3</sup>
pH-value @ 20°C	7- 9

### **FEATURES AND BENEFITS**

**MasterCem LS 3122** offers the following benefits to cement production:

- Cost reduction due to lower unit grinding energy (kWh/t) and optimization of cement fineness and composition while maintaining cement properties.
- Capacity extension due to higher mill throughput and optimized cement recipe.
- Sustainability due to reduced Clinker Factor and specific CO2 emissions. Gain of carbon credits.
- Product differentiation due to enhanced product performance and improved cement properties for the final application.
- Improved cement handling due to faster cement conveyance through the plant and in the distribution logistics. Reduction of plant stops and optimized storage in silos.

#### **DOSING**

**MasterCem LS 3122** can be metered onto the mill feed or injected into the mill. The recommended dosage rate is between 200 and 600 g per ton of cement (0.02-0.06% mass). Other dosages may be required in specific situations. The optimum dosage should be evaluated in plant trials. For further questions please consult our Technical Service.

Calibrated dosing equipment with an adjustable flow rate and appropriate dosage range is recommended to obtain the maximum performance of the product.

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## **COMPATIBILITY**

MasterCem LS 3122 is compatible with all types of cements.

## **STANDARDS**

MasterCem LS 3122 fulfils the European cement standard EN 197.1.

## **PACKAGING**

MasterCem LS 3122 is available in bulk and 1000 ltr. containers (IBC)

#### **STORAGE**

It is recommended to store MasterCem LS 3122 at temperatures above 5°C and protect it from freezing; pipes should be thermally isolated. At low temperature the viscosity of the liquid additive will increase. If phase separation occurs at low temperature, the product must be re-mixed before use. If stored in unopened containers according to manufacturer's instructions. The shelf life is a minimum of 12 months.

#### HANDLING AND TRANSPORTATION

MasterCem LS 3122 is labelled as irritant in accordance with EC Directives, therefore the required handling rules and personal precautions must be applied. It is not classified as a dangerous good under transport regulations. Spillages can be absorbed with suitable materials. Please refer to the Materials Safety Data Sheet for more detailed information.

### **TECHNICAL SERVICE**

Master Builders Solutions assists customers in all phases of cement additives implementation in cement manufacturing. This starts with the assessment of the customer's needs and the technical limitations, continues with lab and field grinding trials, and ends with a comprehensive performance evaluation of the added value of cement additives.

Hotline: 15560, Phone: +202 2128 7800, Fax: +202 2128 7801

Website: https://www.master-builders-solutions.com/en-eg

### **SAFETY PRECAUTIONS**

MasterCem LS 3122 is not a fire or health hazard. Spillages should be washed down immediately with cold water.

For further information, refer to the material safety data

## **NOTE**

Field service, where provided, does not constitute supervisory responsibility. For additional information, contact your local Master Builders Solutions representative.

Master Builders Solutions reserves the right to have the true cause of any difficulty determined by accepted test methods.

## **QUALITY STATEMENT**

All products manufactured by Master Builders Solutions Egypt, or imported from Master Builders Solutions affiliate companies world-wide, are manufactured to procedures certified to conform to the quality, environment, health & safety management systems described in the ISO 9001:2015, ISO 14001:2015 & OHSAS 18001:2007 standards.

- \* Properties listed are based on laboratory controlled
- ® Registered trademark of a MBCC Group member in many countries of the world

Master Builders Solutions CC-EG//MasterCem LS 3122 02 16

MBS Construction Chemicals Egypt (S.A.E), Business Park A, Building A1, Cairo Festival City, Ring Road, New Cairo, Egypt



