

MasterCem® GA 1130

Cement Additive Engineered for Enhancement of Cement Early & Late Strength and Reduction of Unit Grinding Energy / Increase of Cement Mill Throughput, Chloride Free

Material Description

MasterCem® GA 1130 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® GA 1130 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.

MasterCem® GA 1130 improves the flow characteristics of cement with positive impact on cement conveyance and reduction of pack-set in storage.

Areas of Application

MasterCem® GA 1130 is developed for application in the cement grinding process in:

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

Characteristics and Benefits

MasterCem® GA 1130 offers the following benefits to cement producers:

- **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 cement performance and improved 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. Very low dust generation during application and therefore a good working environment.

Dosage

MasterCem® GA 1130 can be metered onto the mill feed or injected into the mill. The recommended dosage rate is between 200 and 800 g per ton of cement (0.02 - 0.08% 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.

Packaging

MasterCem® GA 1130 is available in 1000 kg IBC's and bulk

Compatibility

MasterCem® GA 1130 is compatible with all types of cements.

Technical Properties	
Appearance	Brown
Specific Gravity (20°C)	1,130 -1,190 kg/lit
pH - Value	5 - 8
Alkali Content (%)	≤ 5
Corrosion Behaviour	Contains only components according to BS EN 934-1:2008, Annex A.1
Dangerous Substances	Comply with annex AZ.

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Standards

MasterCem[®] GA 1130 fulfils the European cement standard EN 197.1

Shelf Life

12 months if stored according to manufacturer's instructions in unopened container.

Storage

The product must be stored in its original packaging in environments where the ambient temperature is above +5°C. If the material freezes due to improper storage conditions, it should be thawed at room temperature without the use of direct heat and mixed using mechanical methods until a homogeneous consistency is achieved. Compressed air must not be used during the mixing process.

Health and Safety

For full information on Health and Safety matters regarding this product the relevant Health and Safety Data Sheet should be consulted.

The following general comments apply to all products.

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs, (which may also be tainted with vapor until the product is fully cured and dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Keep away from children and animals. Reseal containers after use.

Spillage

Chemical products can cause damage; clean spillage immediately.

Disclaimer

The technical information given in this publication is based on the present state of our best scientific and practical knowledge. **MBT Teknik Yapı Kimyasalları Sanayi ve Ticaret A.Ş.** is only responsible for the quality of the product **MBT Teknik Yapı Kimyasalları Sanayi ve Ticaret A.Ş.** is not responsible for results that may occur because the product is used other than advised and/or out of instructions regarding the place and the method of use. This technical form is valid only till a new version is implemented and nullifies the old ones.

Contact

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