MasterCem GA 1110

Cement plant admixture designed to reduce grinding energy and increase mill output.

Material description

MasterCem GA 1110 is a liquid, ready-to-use grinding aid.

MasterCem GA 1110 neutralises agglomeration forces that tend to make cement particles "pack" during the grinding process. As a result, the particles are dispersed, which facilitates the grinding operation by contributing more to the fineness of the cement produced and improving particle separation.

These benefits can be utilised both to reduce the energy costs of the grinding operation and to increase cement production. The grinding efficiency can be increased, compared to a reference without an aid, by 10-25%.
However, the results are highly dependent on the type of materials used, the characteristics of the equipment used for grinding, the process conditions and the type of cement to be produced.
To obtain the best benefits from the use of grinding aids, the process parameters of the mill and separator may need to be adjusted.

The use of MasterCem GA 1110 also improves the "pack-set" making it easier to handle the cement powder, both in the grinding mill and in the conveyor lines to packaging and storage, thus avoiding powder bundling.

Fields of Application

MasterCem GA 1110 can be used in grinding processes using:
- ball mills (open and closed circuit),
- vertical mills,
- other grinding systems.

Features and benefits

MasterCem GA 1110 offers the cement manufacturer the following benefits:

- **Reduction in costs** due to less energy absorbed during grinding operations.
- **Increased plant capacity** due to increased mill production. Flexibility in meeting peaks in demand from the market. Possibility of delaying or avoiding investments to enhance mill productivity.
- **Greater production efficiency** due to less wear on the mill and lower maintenance costs. Reduced plant downtime and faster transfer of cement to storage and packaging operations lead to cost optimisation.

Dosage

MasterCem GA 1110 is a ready-to-use, liquid cement admixture to be added to the mill together with the clinker or directly into the grinding chamber.
The recommended dosage for MasterCem GA 1110 varies between 200 and 600 g/ton of cement (0.02-0.06% by mass). Different dosages are possible depending on the specific working conditions. In any case, preliminary trials and pilot tests are recommended to determine the optimal dosage to be used.

Compatibility

MasterCem GA 1110 is compatible with all types of cements.

Packaging

MasterCem GA 1110 is available in 1,070 kg tanks and loose in tankers.

Storage

We recommend storing the product at a temperature not below +5°C and in any case protected from frost.
If stored correctly, the product has a shelf life of 12 months.

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Technical Information	
Appearance	Liquid
Specific weight (g/ml at 20°C)	1.040 - 1.100
pH at 20°C	9.5 – 10.5
Chloride content (%)	< 0.5

Handling and transportation

Refer to MasterCem GA 1110 Safety Data Sheet. In any case it is recommended to apply the general rules for handling of chemical products (e.g. use of gloves and goggles).

Safety information

For information on the correct and safe use, transport, storage and disposal of the product, consult the most recent Safety Data Sheet.

Other services

For additional technical information, brochures, references, technical reports and technical support please visit www.master-builders-solutions.com/it-it or alternatively contact infomac@masterbuilders.com.

Scan QR code to visit the product page and download the latest version of this technical data sheet and any additional documentation.

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Disclaimer

Since 16/12/1992, Master Builders Solutions Italia Spa has been operating under a Certified Quality System compliant with the UNI EN ISO 9001 Standard. Furthermore, the Environmental Management System is certified according to the UNI EN ISO 14001 Standard and the Safety Management System is certified according to the UNI ISO 45001 Standard.
For further information, please consult the local Technician of Master Builders Solutions. The technical advice on how to use our products, either written or verbally given, are based on the current state of our scientific and practical expertise, and does not imply the assumption of any guarantee and/or responsibility for the final results of works executed using our products.
Therefore, the customer is not exempted from the exclusive task and responsibility of verifying the suitability of our products for the intended use and purposes.
This version supersedes all the previous ones.

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