

MA.G.A./C

MApei Grinding Aid /C Pack set inhibitors for cement

DESCRIPTION

MA.G.A./C are high performance grinding aids generally used to increase mill production and to improve the cement quality. They are highly concentrated additives formulated with only selected raw materials, to guarantee absolute constancy of quality and superior performance.

CHARACTERISTICS

MA.G.A./C, thanks to their polar nature, notably reduce the attraction forces of cement particles which are the main cause of agglomeration inside tubular mills. They are also able to modify the hydrated structure of cement and to improve strengths.

The disappearance or the remarkable reduction of agglomeration phenomena favourably modifies the granulometric curve of the finished product with a consequent beneficial effect on the strengths and efficiency of the separation.

It is therefore possible to obtain important production increases (savings in kWh/t) or, at the same production, improvements of the specific surface of the finished cement.

Specific formulations allow the modification of the hydration products of the cement increasing the early and/or ultimate strengths.

USAGE

MA.G.A./C may be successfully utilized in all cases of pack-set phenomena (not due to humidity) inside the mills, particularly in the grinding of Portland and limestone cements. Production increases generally vary between 10% and 30%, depending on the fineness of the cement, on the grinding system available, on the clinker mineralogical composition, on the additive dosage etc.

Specific formulations are available for limestone cement and allow the increase of ultimate strengths; it is possible to decrease the percentage of clinker while maintaining the same cement quality.

CHEMICAL-PHYSICAL DATA

Please refer to the appropriate safety data sheet.

DOSAGE: 0,1-0,5 kg/t

Ordinary Portland Cements: 150-300 g/t

Rapid Hardening Portland Cements: 200-500 g/t

Limestone Cements: 250-500 g/t

We recommend the higher dosage threshold in presence of high percentages of limestone and when the aim is to decrease clinker.

The optimum dosage, in any case, has to be found through a reliable industrial trial, preferably with the help of MAPEI Cement Additives Division technicians.

MA.G.A./C should be added to the clinker (conveyor belt) or sprayed in the first mill compartment utilising a membrane or piston dosing pump.

PACKAGING

MA.G.A./C are available in plastic tanks (1.100 Kg net), in flexytanks 22-24 tons or in bulk trucks.

STORAGE

Maintain the additives at a temperature above 2°C. In normal conditions MA.G.A./C shelf life is at least 24 months

TECHNICAL ASSISTANCE

The MAPEI Cement Additives Division specialists are available to optimise the grinding circuit during the industrial trials and to suggest the most suitable dosage system.

SAFETY INSTRUCTIONS

During the usage of MA.G.A./C it is recommended to respect the usual rules of industrial hygiene and manipulation of the chemical products. For further information please refer to the safety data sheet.

PRODUCT FOR PROFESSIONAL USE.

WARNING

N.B. – Although the technical details and recommendations contained in this product report correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical applications: for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application: in every case, the user alone is fully responsible for any consequences deriving from the use of the product.

REACH

Mapei Cement Additives are fully REACH-compliant.

CUSTOMS TARIF

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