

MA.P.E./A

MApei Performance Enhancer/ A Grinding aids for masonry cement

DESCRIPTION

MA.P.E./A are air-entraining agents formulated for grinding artificial and natural masonry cements.

Artificial masonry cements are obtained by grinding clinker together with one or more inert material (in general limestone).

Natural masonry cements are obtained by burning natural marls at 900 °C, and are characterized by low mechanical strengths but good workability.

MA.P.E./A confer to artificial masonry cements characteristics similar to those of the natural ones (workability, adhesiveness, resistance to freeze-thaw cycles, etc). MA.P.E./A can also further improve the performance of natural hydraulic masonry cements. Specific formulations of MA.P.E./A also allow mill output increases.

CHARACTERISTICS

MA.P.E./A improve both air entraining and water retention. Air entraining can reach 15% to 18% improving the workability of the product. Water retention can easily exceed 95% (based on ASTM standards).

Air is entrained in micro-bubbles, homogeneously distributed, improving workability, yield per surface unit and resistance to freeze-thaw cycles. Micro-bubbles, with controlled diameter

and high stability, act as a lubricant between mortar layers, improving flow and workability.

Water retention prevents the mortar mixing water from migrating towards the external substrate, improves adhesiveness and helps to avoid cracks formation.

USAGE

MA.P.E./A are formulated to improve the characteristics of natural and artificial hydraulic masonry cements. They have to be added to the mill during grinding, for a correct dispersion and to maximize the performances.

CHEMICAL-PHYSICAL DATA

Please refer to the appropriate safety data sheet.

DOSAGE: 0,6-1,0 kg/t

The optimum dosage depends on the type and fineness of the masonry cement.

In any case, it has to be found through a reliable industrial trial, preferably with the help of MAPEI Cement Additives Division technicians.

MA.P.E./A should be added to the clinker on the mill feed conveyor belt or sprayed in the first mill compartment utilising a membrane or piston dosing pump.

PACKAGING

MA.P.E./A 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.P.E./A 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.P.E./A 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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