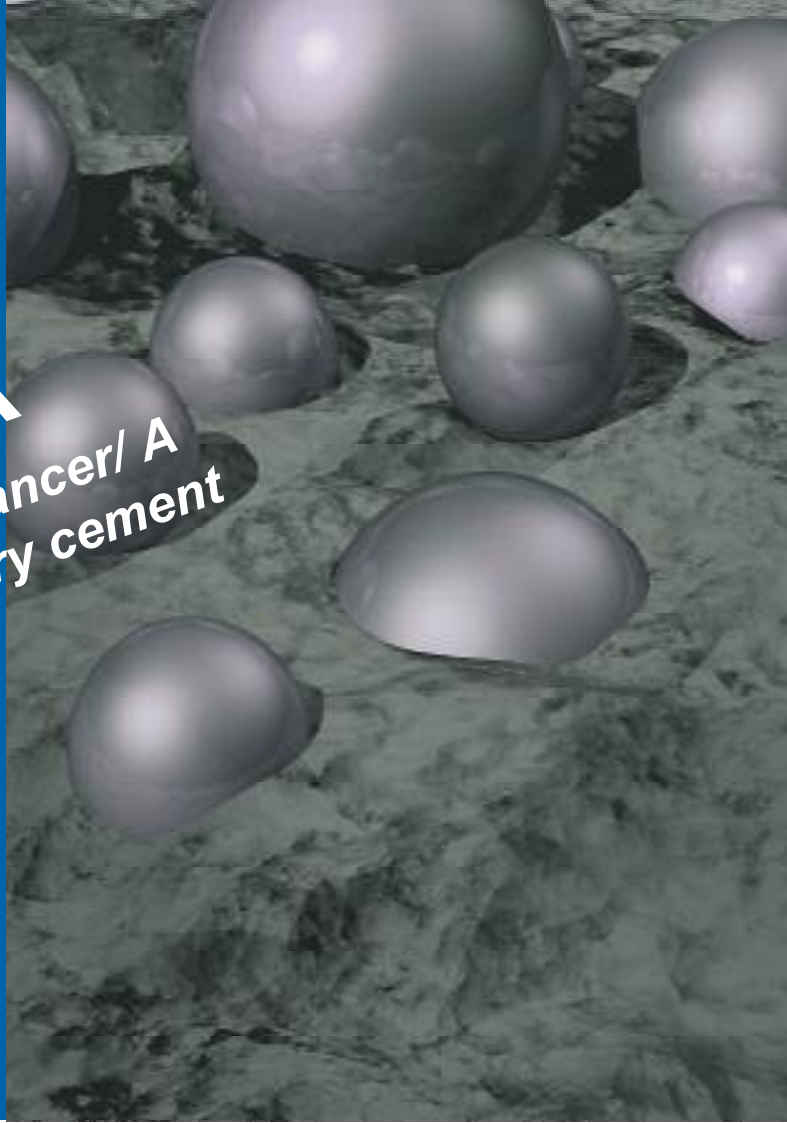




MA.P.E./A

MApei Performance Enhancer/ A
Grinding aids for masonry cement



DESCRIPTION

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

Artificial hydraulic masonry cements are obtained by the grinding of clinker (15/40%) together with one or more inert materials (limestone or siliceous).

Natural hydraulic masonry cements are obtained by firing natural marls at 900 °C, and are characterized by low mechanical strengths, but have a pasty consistency, high workability and adhesiveness.

MA.P.E./A confer to artificial hydraulic masonry cements characteristics similar to those of the natural ones (workability, adhesiveness, resistance to frost-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.

Masonry cement evaluation is principally based on *air entrapment* (>10%) and *water retention* (>85%) potential.

These characteristics guarantee better workability, yield and durability of the cement.

CHARACTERISTICS

MA.P.E./A have both air entraining and water retention actions. 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, improve adhesiveness and helps avoid crack formation. Regular water content in the mortar allows a homogeneous and controlled hardening.

APPLICATIONS

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

CHEMICAL-PHYSICAL DATA

Please refer to the appropriate safety data sheets.

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 (1000 Kg net) or in bulk by lorries .

STORAGE

Maintain the additives at a temperature above 2°C. In case of precipitation re-dissolve through a vigorous mixing before using.

In normal conditions MA.P.E./A shelf life is at least 24 months.

TECHNICAL ASSISTANCE

MAPEI Cement Additives Division technicians are available to cement factories in order to optimise the grinding circuit during all the industrial tests and to suggest the most suitable dosage system.

USAGE PRECAUTIONS

By the terms and conditions of Dir. CEE 88/379 the product has not been considered harmful and it does not have any risk for the liable employees.

To safeguard the employees health it is sufficient 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.

