

MA.P.E./S

MApeI Performance Enhancer/S Pack set inhibitors and strength enhancers

DESCRIPTION

MA.P.E./S are highly concentrated grinding aids formulated with only selected raw materials, to guarantee absolute constancy of quality and superior performance.

They are additives formulated to improve cement quality (early and/or ultimate strengths) and to aid cement grinding by increasing mill production.

CHARACTERISTICS

MA.P.E./S also guarantee, in addition to all the advantages which come from the usage of the grinding aids (refer to MA.G.A./C), remarkable increases to early and ultimate strengths.

At equal cement fineness, MA.P.E./S are able to increase mechanical strengths thanks to a better granulometric distribution of the finished cement, to a higher fineness and to a higher rate of the calcium silicates hydration, which can be significantly modified.

APPLICATIONS

MA.P.E./S may be successfully utilized in the grinding of blended cements (i.e. pozzolanic, blast furnace slag and fly ash cements) and in all cases where a significant increase in early strengths is needed.

MA.P.E./S are generally formulated to reach the goals placed by the cement factory. The obtainable strength increases may be used to improve the binder quality, reaching early strengths quite similar to those of Portland cements.

Alternatively, keeping the cement quality unaltered, it is possible to reduce up to 4-6% of clinker with other constituents.

In normal conditions the strength increases are in the range of 20-50% after one day and 5-15% after 28 days.

MA.P.E./S can also be used successfully for grinding rapid hardening cements and to reduce the initial setting time.

CHEMICAL-PHYSICAL DATA

Please refer to the appropriate safety data sheets.

DOSAGE: 1,0 - 3,0 kg/t

We suggest the higher dosage threshold if the aim is the substitution of clinker points with blended materials (i.e. blast-furnace slag, fly ash, pozzolan).

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.P.E./S 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./S 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./S 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./S 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.

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