Pumping aid admixture for concretes

DESCRIPTION
Mapestart 1 is a powder pumping aid admixture which has been specifically formulated to lubricate the pipe lines thus facilitating the pumping starting process and the flowing of the concrete mixtures in the pipe lines. Mapestart 1 maintains the pipe system in a good state.

WHERE TO USE
Mapestart 1 can be used after the pumping process to better clean the pipe line.

TECHNICAL FEATURES
The lubricating action of Mapestart 1 is possible thanks to the creation of a very thin film within the pipe lines which reduces the friction and the risk of blocking. The reduction of the friction between the walls of the pipes and the pumped concrete mixtures preserves the good state of the pipe lines.

HOW TO USE
Mapestart 1 has to be mixed with water. Add 20-35 litres of water for each bag (nearly 225 g) of Mapestart 1. The quantity of Mapestart 1, i.e. the number of the necessary bags, depends on the dimensions of the pump and on the length of the pipes through which the concrete is pumped. Mapestart 1 can be easily mixed with water through the pumping system (mixer, exchanger and pistons).

The concrete can be pumped after emptying the tank from the water mixed with Mapestart 1.

CONSUMPTION
The consumption varies according to the characteristics of the pump (dimensions and power) and to the pumping line (length and structure). In order to optimize the use of Mapestart 1 it is advisable to contact our technical service Underground Technology Team to evaluate and verify the application conditions on the job site.

PACKAGING
Mapestart 1 is available in plastic bags of nearly 225 g.

STORAGE
Mapestart 1 has to be stored in its original and sealed packaging in a dry and adequately ventilated place at a temperature between +5°C and +35°C. Store maximum 12 months.

SAFETY INSTRUCTION FOR PREPARATION AND APPLICATION
Mapestart 1 is not dangerous. However it is recommended to follow the usual precautions for the manipulation of chemical products. If the product comes into contact with the eyes, rinse immediately and thoroughly with running water and seek medical advice. Always use suitable protective gloves and goggles.
TECHNICAL DATA (typical values)

<table>
<thead>
<tr>
<th>PRODUCT IDENTITY</th>
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<tbody>
<tr>
<td>Aspect:</td>
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<tr>
<td>Colour:</td>
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<tr>
<td>Chemical basis:</td>
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<td>Density (ISO 758) (g/cm³):</td>
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<td>pH (1% solution):</td>
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<td>Hazard classification according to EC 1999/45:</td>
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The Safety Data Sheet is available upon request.

PRODUCT FOR PROFESSIONAL USE.

WARNINGS
While the indications and guidelines contained in this data sheet correspond to the company’s knowledge and wide experience, they must be considered, under all circumstances, merely as an indication and subject to confirmation only after long-term, practical applications.

Therefore, anybody who undertakes to use this product, must ensure beforehand that it is suitable for the intended application and, in all cases, the user is to be held responsible for any consequences deriving from its use.

All relevant references for the product are available upon request and from www.mapei.com

www.utt-mapei.com