

Mapeplast PMX

Admixture for enhancing the pumpability of concrete

DESCRIPTION

Mapeplast PMX is a liquid admixture that substantially improves the pumpability of concrete made with low cement factor, or lacking fine- and very fine-particle aggregate, and reduces segregation and surface bleeding.

WHERE TO USE

Because of its special formulation, **Mapeplast PMX** makes the cementitious mixture highly cohesive allowing the production of lean, pumpable concrete without segregation, even of fluid or superfluid consistency (consistency class S4 and S5 according to EN 206-1).

Mapeplast PMX is especially recommended for:

- preparing pumpable concrete with less than 250 kg/m³ of cement;
- preparing concrete without segregation using aggregate containing no fine and very fine particles;
- preparing concrete with discontinuous grading of aggregates, i.e. lacking one or more sizes of aggregate particles;
- preparing superfluid concrete without surface bleeding.

TECHNICAL CHARACTERISTICS

Mapeplast PMX is a blend of special admixtures which increases the cohesion of the cement matrix without entraining unwanted air bubbles that reduce mechanical strength, yet without significantly decreasing the fluidity of the mix.

For this reason **Mapeplast PMX** can produce pumpable concrete with excellent rheological properties even with low cement factor and/or low-quality sand.

COMPATIBILITY WITH OTHER PRODUCTS

Mapeplast PMX is compatible with other admixtures for quality concrete, especially with:

- all plasticisers and superplasticisers of the **Mapeplast**, **Mapemix**, **Mapefluid** and **Dynamon** product ranges;
- chloride-free hardening accelerator admixtures from the **Mapefast** range to reach high mechanical strength after short curing times, even in cold weather;
- set-retarding admixtures of the **Mapetard** range of products for applications which require a great retention of workability and control in setting;
- fly-ash for concrete with artificial pozzolan;
- form release agents from the **Mapeform Eco** and **DMA** range for easy release of concrete from formworks;
- curing compounds from the **Mapecure** range to prevent rapid evaporation of the mixing water from concrete cast without formworks (floors).

APPLICATION PROCEDURE

Add **Mapeplast PMX** to the mixer after pouring in all the other ingredients (water, cement, aggregates). Mix until a homogeneous paste is obtained.

Mapeplast PMX can also be poured into the mixer together with water, because its cohesion-promoting

TECHNICAL DATA (typical values)

PRODUCT IDENTITY

Appearance:	liquid
Colour:	light blue
Density (at +20°C) (g/cm ³):	1.00 ± 0.02
Specific action:	elimination of segregation and bleeding
pH:	7.5 ± 1

ability is unaffected by the order in which the ingredients are mixed.

CONSUMPTION

Dosage by volume:

from 0.2 to 0.6 litres for every 100 kg of cement.

Different dosages from those suggested must be previously tested through concrete trials, in addition to consulting MAPEI Technical Services Department.

PACKAGING

Mapeplast PMX is available in 200 litre drums and in 1000 litre tanks.

Also available in bulk upon request.

STORAGE

Mapeplast PMX can be stored for 12 months in closed containers, protect from frost and exposure to direct sunlight.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Mapeplast PMX is not considered dangerous according to the current regulation regarding the classification of mixtures. It is recommended to wear protective gloves and goggles and to take the usual precautions for the handling of chemicals. For further and complete information about the safe use of our product please refer to the latest version of our Safety data Sheet.

PRODUCT FOR PROFESSIONAL USE.

WARNING

Although the technical details and recommendations contained in this

product data sheet 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 application; 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.

Please refer to the current version of the Technical Data Sheet, available from our website www.mapei.com

LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement or replace requirements per the TDS in force at the time of the MAPEI product installation.

The most up-to-date TDS can be downloaded from our website www.mapei.com.

ANY ALTERATION TO THE WORDING OR REQUIREMENTS CONTAINED OR DERIVED FROM THIS TDS EXCLUDES THE RESPONSIBILITY OF MAPEI.

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



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