

Mapetard

Set-retarding admixture for concrete

DESCRIPTION

Mapetard is a liquid set-retarding admixture for concrete with low slump loss.

WHERE TO USE

Mapetard is especially recommended for applications which require a good workability retention and a retarded rate of cement hydration at early ages.

Mapetard is mainly used for:

- ready-mixed concrete (especially in hot weather);
- pumped concrete;
- mass concrete;
- retarded cementitious mortars.

Some application examples

Mapetard is especially recommended for:

- ready-mixed quality concrete;
- mass concrete pours where it is necessary to reduce thermal peaks generated by the development of heat by hydration: dams, foundations, etc;
- ready-mixed mortars that can be used 24 to 48 hours after mixing.

TECHNICAL CHARACTERISTICS

Mapetard is a water solution of active polymers that retard cement hydration and limit slump loss in concrete during hot weather and when transporting over long distances. Retention of workability and delay in setting increase the dosage of the admixture, which can vary from 0.2% to 0.5% by weight of cement.

APPLICATION PROCEDURE

It is preferable to add **Mapetard** into the mixer after the other ingredients (water, cement, aggregates). The later the admixture is added, the more effective its action.

Mapetard is most effective if added when cement and aggregate granules are already wet, and least effective when the admixture is mixed with dry solids which partially absorb it (especially if porous). It is advisable to begin adding the admixture with an automatic dispenser after adding at least, half of the batching water required.

COMPATIBILITY WITH OTHER PRODUCTS

Mapetard admixture is compatible with other products for the preparation of special concrete:

- all superplasticizers from the **Mapecfluid**, **Dynamon** and **Chronos** range;
- aerating agents from the **Mapecair AE** range used in the production of concrete resistant to freeze/thaw cycles;
- **Mapecplast SF**, micro-silica powder admixture for producing top quality concrete with strength, durability and impermeability;
- **Mapecure SRA 25** shrinkage-reducing admixture and **Expancrete** expansive agent used in the production of shrinkage-compensating concrete;
- **Mapecplast PZ300** powdered admixture used in the production of concrete with artificial pozzolan and self-compacting concrete;
- form-release compounds from the **Mapecform Eco** and **DMA** ranges used to strip form-work from concrete;
- curing agents from the **Mapecure** range to protect concrete structures without form-work against quick evaporation of the mixing water (floorings).

TECHNICAL DATA (typical values)

PRODUCT IDENTITY

Consistency:	liquid
Colour:	brown
Density according to ISO 758 (g/cm ³):	1.08 ± 0.02 at +20°C
Main action:	retarding of initial hydration; retention of workability
Collateral action:	high range water reduction and/or increased workability
Classification according to EN 934-2:	set retarding admixture, table 8
Classification according to ASTM C494:	Type B
Chlorides soluble in water according to EN 480-10 (%):	< 0.1 (absent according to EN 934-2)
Alkali content (Na ₂ O equivalent) according to EN 480-12 (%):	< 4.0

CUNSUMPTION

Dose by volume:

from 0.2-0.5 l per 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

Mapetard is available in bulk, in 25 kg, 200 l drums and 1000 l tanks.

STORAGE

Store Mapetard for 12 months, in unopened containers, protect from frost.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Mapetard is not considered dangerous according to the current regulations regarding the classification of mixtures. It is recommended to wear gloves and goggles and to take the usual precautions when handling chemicals.

For further and complete information about the safe use of our product please refer to the latest version of our Material 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

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



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