

MAPEFAST CF/P

Chloride-free hardening accelerator for concrete and mortar



DESCRIPTION OF PRODUCT

Mapefast CF/P is a highly concentrated hardening accelerator admixture in powder form containing no chlorides developed in the MAPEI Research laboratories.

Mapefast CF/P accelerates the hydration process of cement, thereby reducing setting times and increasing the early strength. The accelerating effect of **Mapefast CF/P** is generally greater if the temperature of the concrete or the surrounding temperature is lower than +10°C during the pouring phase.

WHERE TO USE

Mapefast CF/P may be used in all types of concrete and particularly when a rapid development of mechanical strength, a reduction in formwork stripping times and cold weather casting is required.

Mapefast CF/P may be used for the following:

- to obtain high mechanical strength after short curing cycles;
- pouring concrete when the surrounding temperature is lower than +10°C;
- to reduce formwork stripping times;
- when making reinforced concrete;
- when using flying formwork.

TECHNICAL CHARACTERISTICS

Mapefast CF/P is an chloride-free, non-corrosive hardening accelerators and may be used in production of steel reinforcement concrete without potentially corrosive effects. **Mapefast CF/P** acts as a catalyser for the formation of hydration products, reduces setting times and accelerates the development of mechanical strength, especially at low temperatures.

HOW TO USE

The dosage of **Mapefast CF/P** may change depending on the jobsite needs, the characteristics of the materials, the surrounding temperature during pouring and the rate of acceleration required. Preliminary tests are always recommended to find out the proper dosage to achieve the technical specifications. **Mapefast CF/P** must never be mixed with other admixtures. To get the best results, we recommend adding **Mapefast CF/P** to the other components of the concrete (cement and aggregates), adding the mixing water and a super-plasticiser and to mix together until completely blended.

Adding **Mapefast CF/P** to the mix does not mean overlooking the usual good practice for cold weather concreting:

- make sure the temperature of the components in the mix is higher than +5°C;
- pour concrete to make the most of the rise in temperature during the day;
- do not pour concrete if the temperature drops to less than -10°C;
- use cement that develops its mechanical strength rapidly;
- keep the water/cement ratio as low as possible;
- protect poured concrete with insulating panels to prevent it losing heat.

COMPATIBILITY WITH OTHER PRODUCTS

Mapefast CF/P is compatible with other MAPEI products used to make special concrete, especially the following:

- super-plasticising admixtures from the **Dynamon**, **Mapefluid** and **Chronos** range;
- viscosity-modifying admixtures from the **Viscostar** and **Viscofluid** range used to make self-compacting concrete;
- **Mapeplast SF** silica fume-based powdered admixture used in the production of highly durable concrete and mortar;
- aerating agents from the **Mapeair** and **Mapeair AE** range used in the production of concrete resistant to freeze/thaw cycles;
- form-release products from the **Mapeform**, **Mapeform Eco** and **DMA** range used to strip form-work from concrete;
- all other types of mineral additives used in the production of self-compacting concrete.

CONSUMPTION

Dosage in volume:

The recommended dosage of **Mapefast CF/P** varies from 0.5 to 2 kg every 100 kg of cement, depending on the surrounding temperature and the mechanical properties required.

Different dosages from those suggested above should always be tested beforehand on concrete and, in all cases, only after consulting MAPEI S.p.A. Technical Services department.

PACKAGING

Mapefast CF/P is available in boxes containing twenty four 1 kg each bags.

STORAGE

Mapefast CF/P may be stored for 24 months in its original packaging in a dry area.

PRECAUTIONS TO BE TAKEN DURING PREPARATION AND APPLICATION

Mapefast CF/P is corrosive and may cause burns and damage to the eyes. During use wear protective gloves and goggles and take the usual precautions for handling of chemicals. If the product comes in contact with the eyes and the skin wash immediately with plenty of water and seek medical attention.

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.

TECHNICAL DATA (typical values)	
PRODUCT IDENTITY	
Consistency:	powder
Colour:	white
Bulk density (g/cm ³):	850
Dry solids content (%):	100
Main action:	hardening accelerator
Classification according to EN 934-2:	hardening accelerator admixture, table 7
Classification according to ASTM C494:	type C

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

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