DESCRIPTION OF PRODUCT
Mapefast C is a chloride-based, liquid setting-accelerator admixture.

WHERE TO USE
- Casting concrete without reinforcement during cold weather.
- Mixing cementitious mortar during the winter time.
- Production of pre-cast elements without reinforcement, with a reduction in handling time and the time required to remove formwork, including vibro-compressed concrete (beads, blocks, etc.).

TECHNICAL CHARACTERISTICS
Mapefast C is a chloride-based admixture made according to a formula developed in MAPEI’s own Research & Development laboratories.

When added to the mix at the recommended dosage, Mapefast C improves the hydration reaction of the cement, accelerating the normal setting times.

The following improvements are achieved using Mapefast C:
- lower setting times, including at low temperatures, compared with mixes without admixtures;
- easier, quicker removal of formwork;
- elimination of problems caused by freezing of the concrete.

RECOMMENDATIONS
- Do not use Mapefast C for concrete and mortar with steel reinforcement.
- Do not add Mapefast C to the mixing water.
- Do not add more than the recommended dose of Mapefast C: setting may be accelerated.
- Mapefast C does not increase the strength of concrete which hardens during freeze-thaw cycles. To make XF exposure-class concrete according to EN 206-1 standards, add air entraining agents from the Mapeair AE range.

APPLICATION PROCEDURE
Preparing the mix
Add Mapefast C at a rate of 0.75-1.5 l per 100 kg of cement together with all the other components: cement, aggregates and water. Continue mixing for a few minutes until a homogenous mix is obtained.

GUIDELINES WHEN PREPARING CEMENTITIOUS MIXES
Even if Mapefast C is added to the mix, the usual guidelines when preparing concrete during cold periods must be followed:
- the components which make up the mix (cement, sand and gravel) must be heated up to a temperature higher than +5°C;
TECHNICAL DATA (typical values)

<table>
<thead>
<tr>
<th>PRODUCT IDENTITY</th>
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</thead>
<tbody>
<tr>
<td>Consistency:</td>
</tr>
<tr>
<td>Colour:</td>
</tr>
<tr>
<td>Density according to ISO 758 (g/cm³):</td>
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<tr>
<td>Main action:</td>
</tr>
<tr>
<td>Classification according to EN 934-2:</td>
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<td>Classification according to ASTM C494:</td>
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<td>Chlorides soluble in water according to EN 480-10 (%):</td>
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<tr>
<td>Alkali content (Na₂O equivalent) according to EN 480-12 (%):</td>
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</tbody>
</table>

- use cement which has been stored at a temperature higher than +5°C;
- cast the mix in the morning where possible, to exploit the normal increase in temperature which takes place during the daytime;
- do not cast at a temperature lower than -10°C if a drop in temperature is forecast in the hours immediately after casting;
- do not use slow-setting cement: where possible, use CEM I 42.5R at a dose higher than 300 kg/m³;
- use the lowest water-cement ratio possible;
- protect the cast material, especially if it has a thin section, using jute or paper bags to help keep hydration heat inside the material.

COMPATIBILITY WITH OTHER PRODUCTS

Mapefast C may be used in conjunction with superplasticizers from the Chronos, Dynamon and Mapefluid ranges.

Mapefast C is compatible with other products used in the production of special concrete, and in particular with:
- Viscostar 3K or Viscofluid SCC/10 viscosity regulator admixtures, for preparing self-compacting concrete;
- air-entraining agents from the Mapeair AE range used in the production of concrete resistant to freeze/thaw cycles;
- limestone and other filler materials, used for mixing self-compacting concrete and any type of concrete which requires such filler materials;
- form-release agents from the Mapeform Eco and DMA range, used for stripping formwork from concrete;
- Mapecure range curing compounds, for protection against rapid evaporation of the water used for blending the mix in concrete structures without form boxes (e.g. floors).

DOSAGE

Dosage in volume:
from 0.75 to 1.5 l/100 kg cement, according to the temperature and mechanical strength required. Different dosages from those suggested must be previously tested through concrete trials, in addition to consulting MAPEI Technical Services Department.

PACKAGING

Mapefast C is available in 1000 l tanks and in 7, 13 and 30 kg tins.
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

PRODUCT FOR PROFESSIONAL USE.

WARNING
Although the technical details and recommendations contained in this product data sheet correspond to the best