

# Mapeplast FV

**Admixture to improve the compacting properties and natural finish of concrete**



## DESCRIPTION OF PRODUCT

**Mapeplast FV** is a liquid admixture which is ideal for improving the compacting properties and natural finish of concrete. It also eliminates air bubbles and unevenness on the surface of cast concrete.

## WHERE TO USE

Thanks to its special formulation, **Mapeplast FV** improves the compacting properties of concrete when vibrated and at the same time, creates a very even surface on the casting by eliminating air bubbles.

**Mapeplast FV** may be used for both fluid and high flow concrete (S4 and S5 consistency classes, according to EN 206-1), and stiff concrete (S1 consistency class according to EN 206-1).

**Mapeplast FV** is particularly recommended for the following:

- manufacture of prefabricated elements with high quality surfaces, with either normal or accelerated curing times;
- casting of natural-finish elements, such as walls, pillars, cantilever roofs, etc.;
- manufacture of low-porosity, vibro-compressed elements with a particularly smooth surface.

## TECHNICAL CHARACTERISTICS

**Mapeplast FV** is a blend of special components which improves the cohesion of the cementitious matrix, eliminating unwanted air bubbles without effecting the fluidity of the mix. **Mapeplast FV** does not have plasticising properties. To create fluid and high flow concrete, a super-plasticising admixture must be added. If concrete resistant to freeze-thaw cycles is required, please consult our Technical Assistance Service.

## COMPATIBILITY WITH OTHER PRODUCTS

**Mapeplast FV** is compatible with other admixtures used in the manufacture of high-quality concrete, and especially with:

- all plasticisers and super-plasticisers from the **Mapeplast**, **Mapemix**, **Mapefluid** and **Dynamon** ranges of products, to increase their fluidity and improve their mechanical strength;
- **Dynamon HAA**, **Antifreeze S** and **Antifreeze Liquid** to reduce setting and hardening times;
- **Mapetard** to delay setting;
- fly ash, used in the production of concrete with artificial pozzolan;
- **DMA 1000**, **DMA 2000** and **DMA 3000 Form Release Agents**, used for stripping formwork from concrete;

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## TECHNICAL DATA (typical values)

### PRODUCT DETAILS

<b>Consistency:</b>	liquid
<b>Colour:</b>	white
<b>Density according to ISO 758 (g/cm<sup>3</sup>):</b>	1.00 ± 0.02 at +20°C
<b>Main property:</b>	improvement of cohesion and surface finish
<b>Soluble chlorides content according to EN 480-10:</b>	< 0.1 (absent according to EN 934-2)
<b>Storage:</b>	12 months, protect from frost
<b>Hazard classification according to EC 1999/45:</b>	none. Before using refer to the "Safety instructions for preparation and application" paragraph and the information on the packaging and Safety Data Sheet
<b>Customs class:</b>	3824 40 00

- **Mapecure E** and **Mapecure S** curing compounds, for protection against rapid evaporation of the water used for blending the mix, in concrete structures without formwork.

### HOW TO USE

Add **Mapeplast FV** into the cement mixer after all the other ingredients (water, cement and aggregates). Mix well until an homogenous mix is obtained.

### CONSUMPTION

#### Dosage in volume:

From 0.3 to 0.7 l per 100 kg of cement.

### PACKAGING

**Mapeplast FV** is available in bulk quantities, in 200 l drums or 1000 l tanks.

### STORAGE

12 months stored in sealed containers and protect from frost.

### SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

**Mapeplast FV** is not considered as dangerous according to the European regulation regarding the classification of preparations. It is however

recommended to use gloves, eyes protection and to take the usual precaution for handling chemical products. The Safety Data Sheet is available upon request for professional users.

FOR PROFESSIONALS.

### 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.*

**All relevant references for the product are available upon request and from [www.mapei.com](http://www.mapei.com)**