

# Mapefluid IF328

## Superplasticising admixture for concrete

### DESCRIPTION

**Mapefluid IF328** is a superplasticising liquid admixture for quality concrete (waterproof and durable) with high initial strength.

### WHERE TO USE

Because of the high workability (consistency class S4 and S5 according to EN 206-1) obtained without excess water in the mix, concrete with **Mapefluid IF328** admixture is easy to place in the plastic stage and has high performance characteristics at early ages.

**Mapefluid IF328** is recommended for applications requiring rapid attainment of final performance. Its principal uses are for:

- precast concrete;
- quality concrete.

### Some application examples

In addition to its plasticising effect, **Mapefluid IF328** has a slight accelerating action on the hydration of cement. Thanks to the combination of these two effects, **Mapefluid IF328** is especially recommended for:

- precast concrete (with reduced steam curing);
- concrete for waterproof structures: purification plants, reservoirs, canals, tunnels, etc.;
- concrete for reinforced or pre-stressed concrete structures exposed to aggressive agents: beams, columns, bridge decks and viaducts;
- quality concrete for structures with  $R_{ck}$  higher than 30 N/mm<sup>2</sup>.

### TECHNICAL CHARACTERISTICS

**Mapefluid IF328** is a water solution of active polymers and hydration catalysts that disperse cement granules.

### RECOMMENDATIONS

Although there are no specific uses for which **Mapefluid IF328** is unsuitable, the following are effective alternatives:

- for preparation of ready-mixed concrete, especially in hot weather, use **Mapefluid R104**, **Dynamon SR** or **Chronos**;
- for mass concrete pours, use **Mapefluid R104** to reduce thermal peaks caused by the heat generated in cement hydration.

### APPLICATION PROCEDURE

It is preferable to add **Mapefluid IF328** into the mixer after all the other ingredients (water, cement, aggregates). The action of the admixture is more effective when added later.

### COMPATIBILITY WITH OTHER PRODUCTS

**Mapefluid IF328** is compatible with other products for producing special concrete, and especially with:

- air-entraining agents from the **Mapeair AE** range for preparation of concrete resistant to freeze-thaw cycles;
- **Mapeplast SF**, the micro-silica powder admixture for preparation of top-quality concrete with strength, durability and impermeability;
- **Expacrete**, the expansive agent for preparation of shrinkage-compensated concrete;
- fly ash for producing concrete with artificial pozzolan;
- form-release agents from the **Mapeform Eco** or **DMA** ranges for stripping concrete formwork;
- curing compounds from the **Mapecure** range for protecting concrete flatwork against overly rapid water evaporation of mix water in concrete flatwork (e.g. floors).

## TECHNICAL DATA (typical values)

### PRODUCT IDENTITY

Consistency:	liquid
Colour:	brown
Density according to ISO 758 (g/m <sup>3</sup> ):	1.21 ± 0.03 at +20°C
Main action:	high-range water reduction and/or improved workability
Collateral action:	acceleration of initial hydration
Classification according to EN 934-2:	high range water reducing, superplasticizer, tables 3.1, 3.2 and 7
Classification according to ASTM C494:	Type F and Type C
Classification according to ASTM C1017:	Type I
Chlorides soluble in water according to EN 480-10 (%):	< 0.1 (absent according to EN 934-2)
Alkali content (Na <sub>2</sub> O) equivalent) according to EN 480-12 (%):	< 9.0
pH according to ISO 4316:	7.5 ± 1.0

### DOSAGE

#### Dosage by volume:

from 0.8 to 2.1 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

Mapefluid IF328 is available in bulk, in 200 l drums, and 1,000 l tanks.

### STORAGE

Mapefluid IF328 can be stored for 12 months in closed containers; protect from frost.

### SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Mapefluid IF328 is not considered as dangerous according to the current regulation regarding the classification of mixtures. We recommend the use of protective gloves and goggles and to take the usual precautions for 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](http://www.mapei.com)

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



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