

# MAPEI

# Mapefluid R234

**High range water reducing super-plasticizer for high strength concrete and concrete containing high proportion of GGBS and silica fume**

## DESCRIPTION

Mapefluid R234 is a chloride free super-plasticizing admixture formulated from synthetic polymers.

## ADVANTAGES

Mapefluid R234 reduces the water/cement ratio with excellent improvements in the fresh and hardened concrete properties. It is specifically designed for meeting all the specifications required in high cementitious mixes.

## WHERE TO USE

- Ready mix concrete.
- Fly ash concrete.
- Silica fume concrete.
- Slag concrete.
- Mass concrete.
- Pile mixes.
- Raft foundations.
- Pouring in hot climates.

## DOSAGE

From 0.5 to 2.0 kgs every 100 kg of total cementitious materials. Different dosages from those suggested must be previously tested through concrete trials, in addition to consulting MAPEI Technical Services Department.

## EFFECT OF OVERDOSING

An overdosing of Mapefluid R234 will result in increase in retardation. Consult MAPEI local technical advisor for overdosages. In case of overdosage good concrete practices such as curing and delay of de-shuttering should be accounted for.

## COMPATIBILITY WITH OTHER MAPEI PRODUCTS

Mapefluid R234 is not compatible with all Dynamon super-plasticizers. Consult MAPEI local technical adviser for further information. It is compatible with other MAPEI products for preparing special concretes, particularly with:

- Retarding plasticizer from Mapeplast range.
- Viscosity modifying agent for self-compacting concrete or pumped concrete from Viscostar and Viscofluid range.
- Mapeplast SF, silica fume powder for reinforcement protection from corrosion and high durability concretes in all aggressive and marine environments or mass concrete;
- Expancrete, expansive agent for producing shrinkage compensating concretes;
- Mapetard range of retarding admixtures for producing very long slump retention in very hot climates.

## PACKAGING

Mapefluid R234 is available in 275 kg drums. It is also available in bulk on request.

## STORAGE

Mapefluid R234 can be stored for 12 months in closed containers. Protect from frost.

## SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Mapefluid R234 is not considered dangerous according to the current regulations regarding the classification of mixtures. It is however recommended to use gloves, eye protection and to take the usual

## TECHNICAL DATA (typical values)

### PRODUCT IDENTITY

Consistency:	liquid
Colour:	brown
Relative density (ISO 758) (g/cm <sup>3</sup> ):	1.200 ± 0.03 at +25°C
pH (ISO 4316):	7.0 ± 1.0
Classification according to IS 9103	clause 3.3 and 3.4
Classification according to EN 934-2	table 10
Classification according to ASTM C494	type D
Chlorides:	< 0.1 (nil according to EN 934-2)
Alkali content (EN 480-12) (%):	< 6.0

precautions taken when handling chemical products.  
For further and complete information about a safety use of our product please refer to our latest version of the 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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