

Mapeplast RP200

Retarding water reducing plasticizing admixture

Description

Mapeplast RP200 is a chloride free plasticizing admixture formulated from synthetic polymers. **Mapeplast RP200** conforms to ASTM C494 as Type B and D and to EN 934-2. The product also complies with the specifications requested by EN 206 standard.

Advantages

Mapeplast RP200 reduces the water/cement ratio improving the fresh and hardened concrete properties by maintaining controlled retardation which allows long slump retention even under hot climatic conditions.

- Improves compressive strength and enhances durability.
- Minimises the risk of pump blockage.
- Extends vibration time by controlling retardation hence, minimising the possibility of cold joints in large pours.
- Optimises cement content and water addition whilst maintaining the compressive strength and workability thereby contributing to reduced carbon footprint of the concrete mix.
- Chloride-free, can be used in post-tensioned, pre-stressed as well as reinforced concrete.
- Suitable for hot weather concreting.
- Improves concrete surface finishing.

Uses

- Ready mix concrete where long workability retention is required.
- Retarded concrete.
- Pouring in hot climates.
- Fly ash, silica fume and GGBS blended concretes either as a stand alone admixture or in combination

with other products from the MAPEI range such as **Mapefluid** and Dynamon admixtures.

- Silica fume concrete.
- Mass concrete pours with improved cohesion.
- Piling mixes.
- Raft foundations.

Dosage

The optimum dosage of **Mapeplast RP200** to meet specific job site requirements should be determined by site trials using the selected cement, cement replacement materials (mineral additions) and aggregates.

The normal dosage rate is 0.3-0.8 liters/100 kg of total cementitious materials. Dosages outside this range can be considered subject to trials.

Effect of overdosing

An overdose of **Mapeplast RP200** such as double the intended amount will result in an increase in retardation when compared to that of normal dosage. Consult MAPEI local technical advisor for overdosages. In case of overdosage, good concrete practices such as prolonged curing and delay of de-shuttering should be allowed for. The ultimate strength of concrete will not be adversely affected by over retardation and will generally be increased. The retardation effect of an overdose will be more pronounced with SRC mixes. Consult your MAPEI local technical advisor in cases of overdosing.

Dispensing

Mapeplast RP200 is a ready to use liquid which should be added to the concrete mix using a calibrated automatic dispenser.

TECHNICAL DATA (typical values)	
PRODUCT IDENTITY	
Consistence:	liquid
Colour:	brown
Relative density (ISO 758) (g/cm³):	1.17 ± 0.03
pH (ISO 4316):	8.5 ± 2
Chlorides (EN 480-10) (%):	< 0.1 (nil according to EN934-2)
Alkali content (EN 480-12) (%):	< 5.0
Air entrainment:	less than 2% added air at recommended doses
Hazard classification according to 1999/45/CE:	none. Before using refer to the "Safety instructions for preparation and application" paragraph and the information on the packing and Safety Data Sheet
Customs class:	3824 40 00

Where multiple admixtures are used in the same mix, they must be added separately to the mix.

Packaging

Mapeplast RP200 is normally supplied in bulk, however, on request, it may also be provided in 200 litre drums and 1000 litre totes.

Storage

Mapeplast RP200 can be stored for 12 months in sealed containers. Protect from frost.

Technical support

MAPEI offers on-site technical assistance upon request. Please consult your local MAPEI technical support team. MAPEI offers a complete range of high performance concrete repair, adhesives and waterproofing products.

Compatibility with other MAPEI products

Mapeplast RP200 is compatible with the **Mapefluid** and **Dynamon** range of superplasticizers. Consult your local MAPEI technical advisor for further information.

Spillage and Disposal

Spillage of **Mapeplast RP200** should be absorbed onto sand or earth and transferred to suitable containers. Disposal of waste material should be carried out in full accordance with prevalent legislation and local waste authority guidelines. Refer to the product Material Safety Data Sheet for further information.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Mapeplast RP200 is not considered a hazardous product when classified in accordance to the latest International regulations. It is however recommended to use gloves, eyes protection and to take the usual precaution 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 web site www.mapei.com

All relevant references for the product are available upon request and from www.mapei.com