

AREA OF USE

Mapeplast® P is a plasticising and water reducing admixture based on modified ligno-sulphonates.

Mapeplast® P acts as a moderate retarder at normal doses. **Mapeplast® P** can be used in all concretes to increase workability and/ or to reduce the amount of water added.

If you require high early strength, it is recommended that you use one of Rescon Mapei's plasticising or super-plasticising, non-retarding admixtures.

PROPERTIES

Mapeplast® P breaks up cement clusters. This dispersing effect can in principle be used in three ways:

1. to reduce the quantity of water added, whilst maintaining the concrete's workability, thereby increasing the strength, density and durability of the concrete (lower water/ cement ratio).
2. to improve the workability compared to normal concrete that otherwise has good properties (strength, water-tightness, durability), but which is difficult to pour (same water/ cement ratio). Increased slump makes pouring easier and reduces the need to work the concrete (vibration).
3. to reduce both the water and cement quantities so that the water/ cement ratio (the relationship between water and total cementitious material) remains the same. The concrete's inherent good qualities (strength, density, durability) can thereby be retained. There are many benefits: lower costs (less cement), less risk of shrinkage (less water), less risk of temperature stress on account of less heat generation during hydration (less cement).

One is usually aiming for a combination of several of these effects.

DOSAGE

The dosage is dependent on how strongly one wants to achieve the various effects, but also on particular conditions related to aggregate, cement, type of other cementitious material and not least temperature, which are important factors in choosing the dosage. It is therefore necessary to carry out trial pours to decide on the right quantity.

At doses of less than 0.5 - 0.8 % of the quantity of cement, **Mapeplast® P** acts as a slight retarder. A delay of 1 – 2 hours is normally both desirable and sufficient.

For long transports, high temperatures and low pouring rates it may be desirable to increase the dosage. **Mapeplast® P** can be used advantageously as a retarder for up to 12-18 hours if there are not very strict requirements for the precision of the retardation.

For longer retardation and a more accurate setting time we recommend **Mapetard R**. When using silica in the concrete, **Mapeplast® P** can be added without causing increased retardation.

PLEASE NOTE

Mapeplast® P MUST BE ADDED AT THE SAME TIME AS THE WATER, either onto the aggregate or directly into the mixer. **Mapeplast® P** SHOULD NOT BE ADDED LATER, as this may cause increased and uncontrollable retardation.

PACKAGING

Mapeplast® P is supplied in 25 litre cans, 200 litre drums, 1000 litre plastic containers and in bulk. The product must be stored frost-free, and has a minimum shelf life of at least one year in unopened, original packaging.

SAFETY INSTRUCTIONS

For health, safety and environmental information, see separate HSE data sheet at www.resconmapei.com.



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WARNING

Although the technical details and recommendations contained in this product report 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 applications; 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.

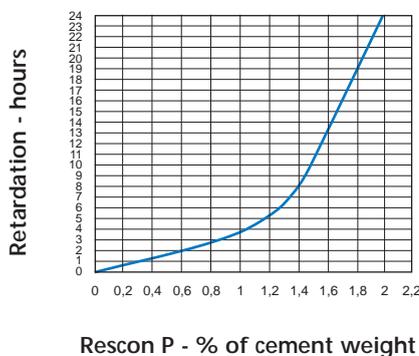
All deliveries from Rescon Mapei AS are made in accordance with the sale and delivery conditions applicable at the time, and these conditions are taken to be accepted on placement of an order.

N.B.! FOR PROFESSIONALS

TECHNICAL DATA	<i>MAPEPLAST® P is approved as a water reducing/ plasticising admixture in accordance with NS-EN 934-2 at Vattenfall Utveckling Certification number: 98505</i>	
Product specifications:		
Consistency:	Liquid	
Colour:	Dark brown	
Viscosity:	Low; < 30 mPa · S	
Dry solids content, %:	39.0 ± 2.0	
Bulk density, g/ cm ³ :	1,20 ± 0,03	
pH value:	8 ± 1	
Chloride content, %:	≤ 0.1	
Alkali content (Na ₂ O equivalent), %:	≤ 6.0	
Properties in concrete		
Admixture added (% of cement weight):	0	1.2
Water/ cement ratio with slump 70 + 10 mm	0.52	0.45
Water reduction: %:	-	12
Compressive strength (N/mm ²)		
After 24 hours:	21	23
After 7 days:	37	45
After 28 days:	45	53
Setting time:	-	+ 5 hours
Air pore volume, %:	2,1	2.2

Retardation on adding Rescon P

Standard cement, W/C 0,6 and temperature 18-20°C

**Diagram:**

The calculated dosage is a guideline, and it is always necessary to carry out trial pours. When using other types of cement the standard dosage will not apply – please get in touch with Rescon Mapei AS.

Assumption: Standard cement,
W/C ratio 0.6 and temperature 18-20°C.

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