

Mapetard R

Set retarding admixture

AREA OF USE

Mapetard® R is a set retarding admixture based on sodium gluconate, used to control the setting of concrete. **Mapetard® R** is normally used in combination with other admixtures, e.g. **Maefluid** or **Mapeplast P**.

Mapetard® R is used for concrete subjected to longer transportation times, for complicated casting procedures, or where a cast without joints is desirable despite interruptions in the casting work.

PROPERTIES

Addition of **Mapetard® R** to concrete or mortar will delay the setting time. The delay in time is dependent upon several factors; the amount of admixture used (as part of the quantity of cement), type of cement, quality of the concrete, temperature of the construction, presence of other admixtures (e.g. silica). It is therefore recommended to undertake test casting using actual materials, especially for larger pours where accuracy of setting time is crucial.

Mapetard® R also has a dispersing effect on the cement and is slightly water reducing. These properties give improved workability and better quality of casting (improved slump) for the same amount of water.

DOSAGE

Normal dosage of **Mapetard® R** is from 0.2 to 1.0% of cement by weight. When adding manually dilution of **Mapetard® R** with water (e.g. 1:1) is recommended for a more accurate dosage.

RECOMMENDATIONS

Mapetard® R is added together with the mixing water directly into the mixer. **Mapetard® R** should not be added any later as this can give extra long and variable setting times.

In addition special care must be taken with regard to heat transferred from underlying or adjacent concrete. This can be compensated for by the addition of an increased amount of **Mapetard® R**, or by gradually increasing the amount of admixture throughout the casting.

PACKAGING

Mapetard® R is delivered 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 datasheet at www.resconmapei.com.

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



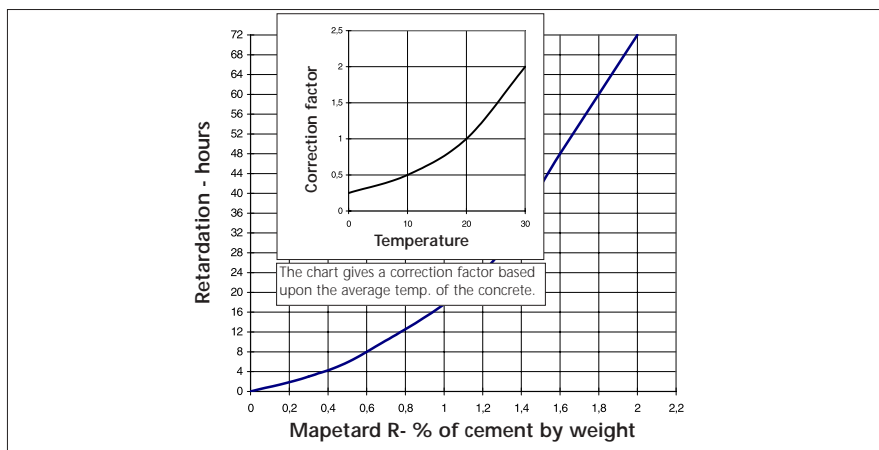
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TECHNICAL DATA	<i>Mapetard® R is approved as a set retarding admixture in accordance with NS-EN 934-2 by Vattenfall Utveckling Certification number: 98511</i>	
Product specifications:		
Type:	Liquid	
Colour:	Blue	
Viscosity:	Low viscosity < 10mPa · S	
Dry solids content, (%):	20.0 ± 1.0	
Density, (g/cm ³):	1,10 ± 0,02	
pH:	6.5 ± 1	
Chloride content, (%):	≤ 0.01	
Alkali content (Na ₂ O-equivalent), (%):	≤ 3.5	
Properties in concrete		
Standard cement, kg/m ³ CEM I-42,5 R (Norcem standard)	350	350
Admixture added (% of cement by weight):	0	0.4
Water/cement ratio (w/c):	0.52	0.50
Water reduction, (%):	-	5
Consistency, (mm)	75	80
Air volume, (%):	2.5	2.6
Time to setting	5hr. 00min.	8hr. 45min.
Compressive strength (N/mm ²):		
After 24 hours	19	20
After 7 days	36	41
After 28 days	44	52

Retardation on addition of Mapetard R

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



CHART

Guidelines to the required dosage are based upon the retardation time multiplied by a correction factor for the average temperature.