



Rev 0
06/22



TEKRETARDER PLUS

Super-retardant setting additive for mortars and concretes



DESCRIPTION

TEKRETARDER PLUS is a liquid setting super-retarder with proportional effect for mortars, concretes, cement-bentonite mixes and similar.
TEKRETARDER PLUS complies with the UNI 934-2 standard.

FEATURES

TEKRETARDER PLUS consists of an aqueous solution of a metallorganic salt with super-retarding action on the setting times of all cementitious mixtures. If the mixtures with additives are protected against water loss (evaporation or absorption), the final strengths are always better than those without additives.

TEKRETARDER PLUS has a significant fluidifying effect, also proportional to the dosage. Due to its super-delayed setting proportional to the dosage, TEKRETARDER PLUS is programmable (all other conditions being equal) and is therefore particularly suitable for large-mass concrete castings where different setting or hardening times are required. It is normally used for concretes, or mortars, to be applied in hot climates when it takes a long time between preparation and casting.

It is increasingly used for delayed transported mortars with use times within 72 hours of packaging. It is often used in geotechnics to allow the pumping of cement-bentonite mixtures especially at high temperatures or for long distance pumping.

MODE OF USE

To obtain the desired consistency of the concrete, it is recommended to add the product to the wet conglomerate (containing about 90% of recipe water), before the last correction water. The product can be formulated to maintain workability for approx. 2 hours (depending on dosage and ambient temperature).
High compressive and flexural strengths after 28 days, decrease in hygrometric shrinkage.

PHISYCAL PROPRIERTY

Physical state	Liquid
Color	Brown
Density	1.23 ± 0.03 g / dm ³
pH (at 20 ° C)	5.5 ± 1
Chlorides	Absent

DOSAGE

The dosages of TEKRETARDER PLUS are very variable according to the specific uses and can vary from 0.05 to 0.5% by volume on the weight of the cement.
(see illustrative table).



1305
TEKNA CHEM SPA
Via Sirtori z.i. 20838 Renate (MB)

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1305 – CPD – 1146
EN 934-2

TEKRETARDER PLUS
T 8 retardant concrete admixture

Maximum chloride content 0.1%
Maximum alkali content 0.1%

Absent dangerous substances

SCHEDELA TECNICA



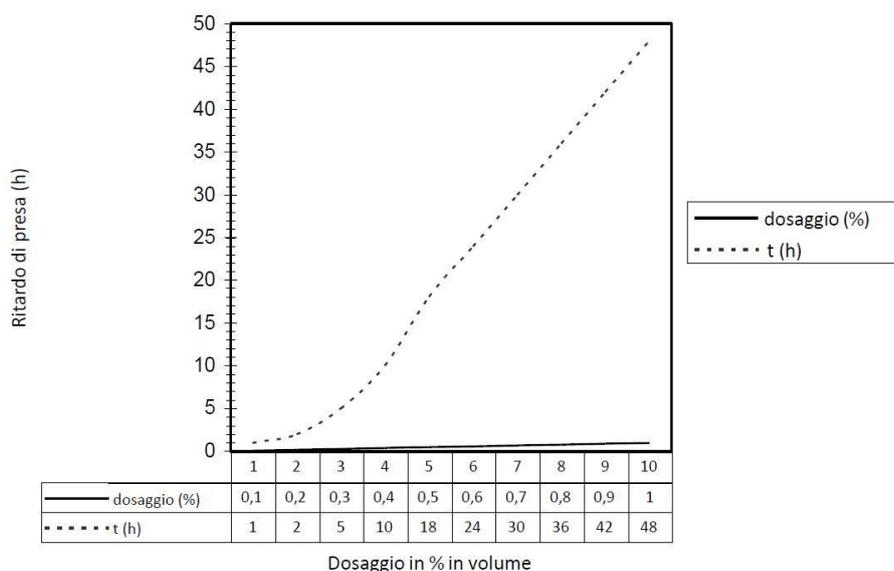
TEKNA CHEM S.p.A.

Stabilimento: Renate (MB) - Via Sirtori, z.i. 20838 - Tel. +39 0362.91.83.11

Web: www.teknachemgroup.it - E-mail: info@teknachemgroup.it - Fax: +39 0362.91.93.96



Relazione dosaggio-tempo di ritardo presa



NB. The graph is the result of tests carried out on concrete mixed with:

Concrete type: CEM II A / LL - 42.5 R

Cement dosage: 300 kg / m³

R a / c: 0.5 T ambient: 20 ° C

Therefore, the setting delays refer to the aforementioned type of mixture, at the aforementioned temperature.

For other types of environmental conditions and / or dosage and / or type of cement the setting times will be modified and, more precisely, they will increase at temperatures below 20 ° C and for lower dosages of cement, vice versa they will decrease, depending on, always, the type of cement used.

STORAGE AND CONSERVATION

The TEKRETARDER PLUS in its original packaging can be stored at temperatures from + 5 ° C to + 45 ° C without problems, in such conditions the product's validity is 12 months.

For storage at temperatures above + 45 ° C and up to + 60 ° C, please inform us at the time of request to properly stabilize the product.

PACKAGING

25 kg plastic cans

240 kg drums

1200 kg tanks

Bulk in tank.

Special automatic dispensers can be supplied on request.

LEGAL NOTICES

The information contained in this technical data sheet, while representing the most advanced stage of knowledge, does not exempt the user from carrying out accurate preliminary tests in their own conditions of use and exercise. We therefore decline any responsibility for improper use of the product.