



CEMENTOL® RETARD R2

Set retarding admixture, SIST EN 934-2: T8

FIELD OF APPLICATION

Cementol Retard R2 is used wherever a slower setting of concrete is required. It is especially appropriate for making transport concretes and for concreting in hot climates, to prevent excessively fast setting caused by high temperatures.

ACCORDANCE WITH THE SIST EN 934-2 STANDARD

Property	Declared values with acceptable deviation
Appearance	Colourless to milky white liquid
Relative density, 20°C	(1,18 ± 0,03) kg/dm ³
Conventional dry material content	(18,5 ± 1,8) %
pH	8 ± 1
Water soluble chloride content (Cl ⁻)	Does not contain chlorides
Alkali content (Na ₂ O equivalent)	< 8,0 %

ACTION

A concrete set retarder delays the formation of cement hydration products – development of crystal nuclei inside the cement paste, thus prolonging the setting time of cement. Concrete with added retarder obtains better plasticity and workability and is therefore easier to place.

DOSAGE AND INSTRUCTIONS FOR USE

- Dosage: 0,2 – 1,5 % of cement weight (0,2 to 1,5 kg per 100 kg of cement), depending on w/c ratio, temperature of the environment, quantity of cement, required retarding time and mineral composition of cement. The effect of the retarder on the setting of concrete has to be determined with trial mixes in order to establish the precise dosage.
- Always dilute **Cementol Retard R2** with mixing water before adding it to the concrete mixture. This prevents local reaction and enables a better distribution throughout the mixture. When dosing manually, the proportion retarder : water should be at least 1 : 5.

ADVANTAGES

- Enables concreting at higher temperatures.
- The concrete is transportable on longer distances.

PACKING

- 60 kg plastic cans

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STORAGE

- Store the product protected from damage and freezing.
- In tightly closed and undamaged packaging, the shelf life of the product is min. 2 years from the production date.
- The product may still be used after the date of expiry, but the characteristics important for the intended use have to be examined.

SAFETY PRECAUTIONS

General instructions for working with chemicals should be observed when working with **Cementol Retard R2**:

- Eating, drinking or smoking during work is prohibited.
- After finishing work, hands should be thoroughly washed with water.

**CEMENTOL RETARD R2 –
 set retarder: effect on setting time at 20°C**

Cement mortar: SIST EN 480-1

Cement: CEM I 42,5 R

Setting time	Reference	Cementol Retard R2 0,8%	Retardation of setting time
Initial (min)	180	528	348
Final (min)	240	573	333

NOTE

Instructions are given on the basis of examinations and technical experience of the firm. Due to specific conditions and work methods, preliminary tests are advised for every type of use. Since we cannot influence the course of work, we cannot be held responsible for its quality.

Cementol RETARD R2 – setting retarder meets the SIST EN 934-2 standard requirements.