



CEMENTOL®

TIKSOKRET P-BA

Non-alkaline set accelerating admixture for sprayed concrete, SIST EN 934-5: T2

FIELD OF APPLICATION

Cementol Tiksoekret P-BA is a powdered alkali-free and chloride free set-accelerating admixture for sprayed concrete. It has been formulated especially for the dry-mix spray process.

Due to its strong influence on cement setting time, it enables applying highly compact linings with high initial strength and good adhesion on vertical and overhead surfaces in mines, tunnels, etc.

ACCORDANCE WITH THE SIST EN 934-1 STANDARD: Table 1

Property	Declared values with acceptable deviation
Appearance	white powder
Water soluble chloride content (Cl ⁻)	Chloride free
Alkali content (Na ₂ O equivalent)	≤ 1,0 %

ACTION

Cementol Tiksoekret P-BA is a set-accelerating admixture with strong influence on the setting time of cement. When added to the concrete mixture, quick setting occurs. Initial setting time decreases to only a few minutes. The effect depends on the type and dose of cement, water-cement ratio, temperature of fresh concrete and of the environment and other admixtures used.

If sprayed linings are not placed in damp surroundings, moist curing is required to prevent water loss and to minimise crack formation.

Cementol Tiksoekret T-BA is alkali-free and does not trigger an alkali-aggregate reaction. Furthermore, strength loss in the accelerated concrete is minimal.

DOSAGE AND INSTRUCTIONS FOR USE

- Dosage: 4 - 8 % of the cement weight (4 to 8 kg per 100 kg of cement), depending on required effects, type of cement, cement age and working conditions. In some cases dosages could be lower.
- **Cementol Tiksoekret P-BA** must be introduced into a dry mixture of cement and sand and thoroughly mixed before adding water.
- If moist sand is used, **Cementol Tiksoekret P-BA** must be added into the spray machine just before using sprayed concrete, otherwise the pipes can get blocked due to quick setting of the mixture.
- In order to determine the optimal dosage for the required setting time, preliminary tests should be done, using the actual material of the job site.

RECOMMENDATIONS AND WARNINGS

- Cement: usually 350-500 kg/m³; type and dosage depend on the performance requirements; at lower temperatures cements with a higher heat of hydration as well as higher dosages of cement are recommended.
- Aggregate: usually maximum diameter 8 mm.

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- Mineral admixtures: to improve rheological properties, impermeability, strengths and resistance to aggressive agents 5-10 % by weight of cement of silica-fume based admixture **Cementol Mikrosilika** can be added.
- Water-cement (W/C) ratio: depends on the performance requirements but usually not higher 0,50.
- **Cementol Tiksoekret P-BA** should not be used with normal concrete.
- **Cementol Tiksoekret P-BA** should not be mixed with other sprayed concrete set accelerating admixtures.

PACKING

- 25 kg sacks, big-bags

STORAGE

- The product should be stored in dry and ventilated places, well protected from damage and moist.
- In tightly closed and undamaged original packaging, stored in dry places, 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

In cases of repeated or long-term contact **Cementol Tiksoekret P-BA** may cause irritation of the skin and mucous membranes to sensible persons. When handling the product, protective gloves, goggles and mask should be used. In case of contact with eyes, irrigate with plenty of running water and seek medical advice.

When working with **Cementol Tiksoekret P-BA**, general instructions for working with chemicals should be respected:

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

NOTE

Instructions are given on the basis of our examinations and technical experience. Due to specific conditions and work methods, preliminary tests should be done for every type of use of **Cementol Tiksoekret P-BA** alone or combined with other admixtures.

Since we cannot influence the course of work, we cannot be held responsible for its quality.

Cementol Tiksoekret P-BA, non-alkaline sprayed concrete set accelerating admixture meets the SIST EN 934-1 and SIST EN 934-5 standards requirements.