



CEMENTOL® DELTA EKSTRA

**Plasticizing admixture, SIST EN 934-2: T2
with water retention effect**



Fountain at the column on viaduct Črni kal.

FIELD OF APPLICATION

It is intended for the general concrete quality improvement. **Cementol Delta EKSTRA** may delay the initial hydration of cement (depending on the dosage used) but the hardening process is not substantially modified, so that an increase in strength is obtained in proportion to the reduction in mixing water. The latter varies between 5 to 10 % depending on the dosage of **Cementol Delta EKSTRA**. Increased workability and easier placeability is achieved by adding **Cementol Delta EKSTRA** without lowering the w/c ratio.

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

Property	Declared values with acceptable deviation
Appearance	Dark brown liquid
Relative density, 20°C	(1,21 ± 0,03) kg/dm ³
Conventional dry material content	(44,5 ± 2,2) %
pH	7,5 ± 1
Water soluble chloride content (Cl ⁻)	Chloride free
Alkali content (Na ₂ O equivalent)	< 2,0 %

ACTION

When added to the concrete mix the admixture is adsorbed onto the cement particles thus favouring the dispersion of cement agglomerates. Consequently the flow of cement particles is easier and a higher flowability of the mix is therefore obtained. The improved cohesion of concrete with **Cementol Delta EKSTRA** reduces segregation and bleeding of concrete.

DOSAGE AND INSTRUCTIONS FOR USE

- The dosage of **Cementol Delta EKSTRA** normally varies between 0,2 % to 0,6 % by weight of cement (0,2 kg to 0,6 kg per 100 kg of cement) depending on w/c ratio and consistency desired. In most cases the dosage between 0,2-0,4 % is sufficient, in case of longer transport or higher temperatures higher dosages are recommended. Examination trials must be done!
- **Cementol Delta EKSTRA** must be diluted with mixing water and then added to dry concrete mix. The proportion between plasticizer and water has to be min. 1:5 (1 l of plasticizer to 5 l of water).

Warning:

- Added to certain types of cement, **Cementol Delta EKSTRA** may cause slower cement setting and consequently slower concrete setting if the dosage exceeds 0,6 % of the cement weight. When using the product for this purpose, preliminary tests are obligatory.
- Trial mixes should be done when **Cementol Delta EKSTRA** is used at lower temperatures (specially at high dosages) or in the combination with other admixtures, too.

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ADVANTAGES

- faster finishing of the job
- energy saving
- increasing in concrete strenghts
- general improvement of concrete quality and durability

PACKING

- 60 kg plastic cans, 220 kg drums, 1 m³ containers

STORAGE

- Store the product in tightly closed packaging at temperatures between +5°C and +35°C. Protect from damage, freezing and direct sunlight.
- 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 observed when working with **Cementol Delta EKSTRA**:

- 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 examinations and technical experiences 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 Delta EKSTRA - water reducing / plasticizing admixture meets the *SIST EN 934-1* and *SIST EN 934-2* standards requirements.