



CEMENTOL® SPA

Air-entraining admixture, SIST EN 934-2: T5 with superplasticizing effect



Cross road Malence and tunnel Golovec.

FIELD OF APPLICATION

Cementol SPA is intended for general improvement of concrete quality. It enables water reduction and simultaneously entrains air microbubbles into fresh concrete. It can be used for preparing high quality and durable concretes.

Cementol SPA is especially recommended for concreting blocks, pipes, roads, precast blocks, etc.

ACCORDANCE WITH THE SIST EN 934 STANDARD

Property	Declared values with acceptable deviation
Appearance	Dark brown liquid
Relative density, 20°C	(1,08 ± 0,02) kg/dm ³
Conventional dry material content	(18,0 ± 1,8) %
pH	7 ± 1
Water soluble chloride content (Cl ⁻)	Chloride free
Alkali content (Na ₂ O equivalent)	< 4,0%

ACTION

When added to the concrete mixture **Cementol SPA** acts as a superplasticizer with strong dispersion action and simultaneously entrains air microbubbles into the concrete. Because of its properties it is especially recommended when highly durable concretes are required. Strength loss, typical of normal air-entrained concretes, is compensated with superplasticizing action.

DOSAGE AND INSTRUCTIONS FOR USE

- Dosage: 1% - 2% of the cement weight (1 to 2 kg per 100 kg of cement), depending on w/c ratio, consistency and air-entraining required.
- **Cementol SPA** can be introduced into the mixer diluted with mixing water or added to the already prepared fresh concrete mixture before concrete placing. In this case additional 4 to 5 minute mixing is required. The quantity of pores appropriate for almost all purposes varies between 3 and 6% (of volume), depending on concrete use and concrete mixture composition. To determine the appropriate quantity of **Cementol SPA** for a certain mixture, **preliminary tests are obligatory**.

ADVANTAGES

By entraining the optimum quantity of air microbubbles into highly workable concrete with low w/c ratio, the following advantages are obtained:

- **in fresh concrete:**
increased workability,
easier placeability,
reduced segregation and bleeding.

**CEMENTOL® SPA**

*Air-entraining admixture, SIST EN 934-2: T5
with superplasticizing effect*

• in hardened concrete:

- reduced permeability,
- increased resistance to de-icing salts,
- increased resistance to freeze-thaw cycles,
- durability.

PACKING

- 50 kg plastic cans, 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 be observed when working with **Cementol SPA:**

- 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 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 SPA – air-entraining admixture meets the SIST EN 934-2 standard requirements!