

Plasticizing admixture with water retention effect

AREA OF USE

Cementol Delta Ekstra is a plasticizer designed to improve the overall quality of all types of concrete. When the water-cement ratio is reduced at the same time as the plasticizer is added, the strength of the base concrete is increased. The amount of mixing water is reduced by 5 to 10 %, depending on the type and dose of cement and the amount of plasticizer used.

The addition of a plasticizer with the same water-cement ratio improves the workability, pumpability and casting of concrete.

Cementol Delta Ekstra also improves water retention, especially at higher dosages, and reduces concrete bleeding.

TECHNICAL CHARACTERISTICS

Characteristic	Declared value
Appearance	Dark brown liquid
Density, 20 °C	(1.21 ± 0.03) kg/L
pH	7.5 ± 1.0
Water-soluble chloride content [Cl ⁻]	Chloride free
Alkali content [Na ₂ O equivalent]	< 2.0 %

COMPLIANCE

Cementol Delta Ekstra - plasticizing admixture, complies with the requirements of the EN 934-1 and EN 934-2 / T2 standards.

ACTION

The plasticizer reduces water surface tension and, due to its composition, effectively increases cement particle dispersion, allowing for better homogenization of fresh concrete mix. Because of the larger active surface of the cement, it enables a higher efficiency and a higher degree of hydration, and consequently allows for higher compressive strengths.

The adhesion of concrete to steel reinforcement is improved, as is the durability of hardened concrete.

DOSAGE AND INSTRUCTIONS FOR USE

The recommended dose is 0.2 - 0.6 % of cement weight (0.2 - 0.6 kg per 100 kg of cement), depending on the w/c ratio, the desired consistency of fresh concrete, and the temperature of the concrete and its surroundings.

A dose of 0.2 - 0.4 % is generally sufficient; however, for longer transports and/or higher temperatures, we recommend a higher dosage.

It is always diluted with mixing water before being added to a dry concrete mix. If manually dosed, dilute it with water in a volume ratio not less than 1 : 5 [1 L plasticizer + 5 L water].

Plasticizer Cementol Delta Ekstra can act as a set-retarder in certain types of cement, especially when dosed in amounts greater than 0.6 %. If we want to use it for this purpose, we must conduct preliminary tests on the selected dosage with the materials that will be used.

Preliminary tests are also required when using Cementol Delta Ekstra at lower temperatures (especially at increased doses of ≥ 0.6 %).

Cementol Delta Ekstra is compatible with a wide range of admixtures, such as superplasticizers from the Cementol Zeta family, hyperplasticizers from the Cementol Hiperplast family, air-entraining admixtures from the Cementol Eta family and hardening accelerating admixture Cementol B Novi.

Before using higher number of admixtures in one concrete mix, we advise prior examinations. If it is used in conjunction with other additives, they must be added separately to the concrete mix (one after the other).

Stir before use.

When designing a concrete mixture, we respect the requirements and principles of the EN 206 standard: Concrete - specification, performance, production and conformity, as well as the relevant national provisions.

During concreting and curing of fresh concrete we respect the principles of good practice.

PACKAGING

drums 60 kg, IBC containers 1 m³

STORAGE

- The product should be stored at temperatures between +5 °C and +35 °C. We need to protect it from damage, freezing and direct sunlight.
- A properly stored product has a shelf life of at least 2 years after the date of manufacture.
- The product may still be used after the date of expiry, but the characteristics important for the intended use have to be examined.

HEALTH, SAFETY AND ECOLOGY

When working with Cementol Delta Ekstra, wear protective gloves. Follow the general instructions for working with chemicals: take care of cleanliness, do not eat, drink or smoke while working. After finishing work, wash hands thoroughly with water.

More information on safe handling and disposal of the product is available in the safety data sheet, which is provided on request, and is also available from the dealer or distributor where you purchased the product.

WARNING

Instructions and recommendations are given based on examinations in our laboratories and experience to date. Due to specific conditions and work methods, preliminary tests are advised for every type of use, for each individual case of use of the product alone, or in combination with other admixtures.

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

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