

Hardening-accelerating admixture with superplasticizing effect

AREA OF USE

Cementol Omega F-conc. has the properties of both a hardening accelerator and a superplasticizer. It allows concrete to reach the strength of 5 MPa faster, which is required for it to withstand the stresses that arise during freezing, while also lowering the water-cement ratio or increasing the workability of the fresh concrete mix, making it suitable for use in the production of precast elements and concreting at low temperatures.

It does not contain chlorides.

TECHNICAL CHARACTERISTICS

Characteristic	Declared value
Appearance	Brown liquid
Density, 20 °C	[1.29 ± 0.03] kg/L
pH	6.5 ± 1
Water-soluble chloride content [Cl ⁻]	Chloride free
Alkali content [Na ₂ O equivalent]	< 13.0 %

COMPLIANCE

Cementol Omega F-conc. - hardening accelerating admixture, complies with the requirements of EN 934-1 and EN 934-2 / T7 standards.

ACTION

It accelerates the hydration of cement minerals, which speeds up the gain of early compressive strengths of concrete while strongly plasticizing the fresh concrete mixture. As a result, we can prepare concrete with the same workability using less water. Both processes enable faster early compressive strength development, higher final concrete strengths, and significantly improved water impermeability.

DOSAGE AND INSTRUCTIONS FOR USE

The recommended dose is 1 – 2 % of cement weight (1 – 2 kg per 100 kg of cement) depending on the desired effects and working conditions.

It is dosed diluted with mixing water. However, it can be added in concentrated form to the already prepared fresh concrete mix while mixing. In this case, the mixing of concrete should be extended for

The effect of the accelerator is greater when using cements with higher hydration heat, and in concretes with higher doses of cement.

When concreting in the winter, precautions for concreting at low temperatures should be respected. During casting, fresh concrete must have a temperature of at least +5 °C. Fresh concrete (free surfaces) must be immediately protected with a suitable insulating material to prevent heat transfer from the concrete to the surroundings during hydration.

Cementol Omega F-conc. is compatible with many admixtures, such as: plasticizers from the Cementol Delta family, superplasticizers from the Cementol Zeta family, air-entraining admixtures from the Cementol Eta family.

Cementol Omega F-conc. is incompatible with hyperplasticizers from the Cementol Hiperplast family. Before using a higher number of admixtures in a concrete mixture, we advise preliminary tests. In this case, they must be added to the concrete mixture separately (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

- Protect the product from damage 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 Omega F-conc., wear protective gloves and eye protection. 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!

TKK TKK d. o. o. · Srpenica 1, 5224 Srpenica, Slovenija
+386 [0] 5 38 41 300 | info@tkk-group.com | www.tkk-group.com