

Water resisting admixture

AREA OF USE

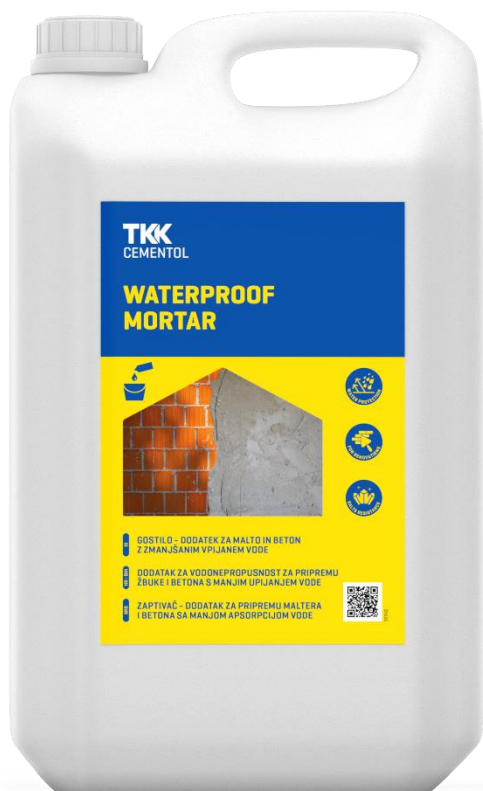
Cementol Waterproof Mortar is a liquid admixture that greatly reduces capillary absorption of water and moisture. It is effective in cement, cement-lime and lime mixtures. Due to the way it works, it is particularly suitable for producing:

- damp-wall treatment plaster,
- damp-wall injection grouts,
- concrete roof tiles,
- concrete pipes,
- paving blocks,
- concrete products.

ACTION

Cementol Waterproof Mortar reacts with lime, which is always present in cement. The reaction produces a water-insoluble compound which has a water-repellent effect. When the admixture is mixed with cement, lime, or a cement-lime mixture, the solidified mixture becomes hydrophobic throughout. Water becomes impassable through capillaries that normally rise due to osmotic pressure.

It does not affect the vapour permeability of the mortar - mortar prepared with the admixture still "breathes".



TECHNICAL CHARACTERISTICS

Characteristic	Declared value
Appearance	Milk-white liquid
Density, 20 °C	approx. 1 kg/L
pH	6 ± 1
Water-soluble chloride content [Cl ⁻]	Chloride free
Alkali content [Na ₂ O equivalent]	Alkali free

COMPLIANCE

Cementol Waterproof Mortar – water resisting admixture complies with the requirements of the standards EN 934-1 and EN 394-2 / T9.

DOSAGE AND INSTRUCTIONS FOR USE

The recommended dose depends on the composition of the mortar, the desired effects and the intended use:

- For cement mortar: 3 % by weight of cement [0.75 L per 1 bag of cement]
- For extended mortar [cement-lime mortar]: 4 – 5 % by weight of binder [1 – 1.25 L per 25 kg of binder]
- For lime mortar: 7-10 % by weight of lime [1.75 – 2.50 L per 1 bag of lime]

In order to achieve optimal effects, we recommend preliminary tests with the materials that will actually be used.

Add the Cementol Waterproof Mortar to the dry mixture of binder and fillers diluted with mixing water and mix well.

To compensate for the potential loss of strength caused by the use of Cementol Waterproof Mortar, we recommend the use of a superplasticizer, such as Cementol Waterproof Concrete.

If a combination of two admixtures is used to prepare the mortar, add Cementol Waterproof Mortar to the dry mixture first, followed by the other admixture with the remaining mixing water.

If the second admixture is a superplasticizer, we must consider that the total amount of added water is reduced by approximately 15 – 30 %.

Cementol Waterproof Mortar is compatible with other additives such as Cementol Waterproof Concrete and Cementol Wintermix Concrete.

We do not recommend using Cementol Waterproof Mortar in combination with Cementol Concrete Contact, as its effectiveness is greatly reduced.

Cementol Waterproof Mortar is not recommended for use in combination with mixed masonry cements [EN 413-1], because the effect is greatly reduced.

If several admixtures are used in one mix, they must be added separately [one after the other].

Mix before use.

Effect on capillary absorption of water at the same consistency

- Cement mortar prepared in accordance with EN 480-1
- Cement used: CEM I 42.5 R

Capillary absorption after immersion in water	Control mix [without admixture]	Test mix with Cementol Waterproof Mortar, 4%	Criterion EN 934-2 / T9
7 days of curing + 7 days of immersion in water	100 %	37 %	≤ 50 % compared to the control mix
90 days of curing + 28 days of immersion in water	100 %	52 %	≤ 60 % compared to the control mix

PACKAGING

cans 5 kg and 10 kg

STORAGE

- The product should be stored at temperatures between +5 °C and +35 °C. 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

No special measures are required when working with Cementol Waterproof Mortar. 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 tests 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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