



CEMENTOL[®] HIDROFOB E

Water-retaining admixture,
SIST EN 934-2: T9

FIELD OF APPLICATION

Cementol Hidrofob E is used in preparing cement, lime and cement-lime mortars with highly reduced capillary absorption.

It is recommended for:

- damp-wall treatment plaster,
- damp-wall injection grouts,
- concrete roof tiles,
- concrete pipes, etc.

AGREEMENT WITH THE SIST EN 934-2 STANDARD

Property	Declared values with acceptable deviation
Appearance	Milky yellow liquid
Relative density, 20°C	ca. 1 kg/dm ³
Conventional dry material content	(6,5 ± 0,6) %
pH	5 ± 1
Water soluble chloride content (Cl ⁻)	Chloride free
Alkali content (Na ₂ O equivalent)	Alkali free

ACTION

- **Cementol Hidrofob E** reacts with lime and forms an insoluble water-repellent compound.
- It increases the workability and cohesion of mortars.

DOSAGE AND INSTRUCTIONS FOR USE

- **Cementol Hidrofob E** is a liquid admixture, which is diluted with water and added to dry mortar mixture.
- Dosage depends on mortar composition and required effects. Preliminary tests are recommended.

Optimal dosage:	- cement mortar:	3 % of cement weight
	- cement-lime mortar:	4-5 % of binder weight (cement + lime)
	- lime mortar:	7-10 % of lime weight

Mortar capillary water absorption is reduced by 20 - 80 % in this way.

- In case of eventual strength loss, the use of **Cementol Omega F**, a hardening accelerating admixture with superplasticizing effect, is recommended.

CEMENTOL® HIDROFOB E*Water-retaining admixture,
SIST EN 934-2: T9***Warning**

- **Cementol Hidrofob E** diluted with water is added to the dry mortar mixture and thoroughly mixed.
- When using two admixtures, each should be added separately to the mixing water and only then poured into the mixture. It should be taken into account that the use of a superplasticizer reduces the amount of water needed by 15 - 30%.
- **Cementol Hidrofob E** is not advised to be used in plasters prepared with **Cementol Elastosil 34** or **Maltit** since these two combinations noticeably diminish its effect.

ADVANTAGES

- Water-based solution: excellent mixing with water, binder, sand and mineral admixtures.
- Reduced damp-water absorption and transport in injection grouts.
- Preparing hydrophobic repair-mortars which prevent new damages caused by water in the long term drying of repaired damp walls (efflorescence, stains, scaling, etc.).
- When radical damp-wall repairing is impossible, the use of hydrophobic renders enables long-term improvement.
- Hydrophobic renders alone can be used to protect less damp walls or objects.
- Production of high-quality facade renders. Due to their highly reduced water absorption, the facades remain clean much longer, their thermal insulation properties do not diminish, while the risk of frost damage is strongly reduced.
- Production of concrete roof-tiles, etc.

PACKING

- 10 kg and 50 kg plastic cans

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. 1 year 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 Hidrofob E**:

- 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 Hidrofob E – water-retaining admixture agrees with the *SIST EN 934-2* standard requirements in the limits of recommended dosage 3-5%.

Cementol Hidrofob E - Water - retaining admixture**Conformity with SIST EN 934-2:T9****Effect on Capillary Absorption****Cement mortar: SIST EN 480-1****Cement: CEM I 42,5 R**

Capillary absorption (%)	Reference	4,0% Hidrofob E	Criterion SIST EN 934-2:T9
7 days after 7 days curing	100	37	lower or equal 50% by mass of control mix
28 days after 90 days curing	100	52	lower or equal 60% by mass of control mix

Capillary absorption (%)

