



Rev 0
11/24

with TEKNAPROOF K

TEKNAPROOF K

Water-repellent liquid waterproofing for concrete and mortars



DESCRIPTION

TEKNAPROOF K is a ready-to-use, high-dispersion, emulsion water-repellent that offers concrete impermeability. The chemical components that constitute it allow the reduction of capillary porosity, consequently reducing the permeability of the cement paste.

GENERAL FEATURES

TEKNAPROOF K, due to its special formulation, creates a hydrophobic barrier designed to protect cementitious products from damage caused by water infiltration.

The product easily penetrates the capillary pores of the cement matrix and the internal walls are coated with its water-repellent agents, thus acting as a barrier that cannot be penetrated by water.

This allows you to obtain advantages such as:

- reduced risk of efflorescence
- increased resistance to freeze/thaw cycles and dry/wet cycles
- Improved resistance to chemical attack
- less probability of corrosion of the reinforcements.

Due to its characteristics, TEKNAPROOF K can be used safely in concretes with an earth-moisture consistency in order to prevent the surface appearance of the characteristic microscopic white salts, which are formed as a result of water evaporation. In addition, it improves the workability of the mixtures, especially in concretes with a low dosage of cement. The production of concretes that is less permeable to water means that the reinforcing rods are protected against corrosion and that they are protected against the growth of fungi and bacterial colonies.

FIELDS OF APPLICATION

TEKNAPROOF K is used wherever you want to give the cement mixture hydrophobic properties and limit or prevent the appearance of efflorescence on concretes with an earth-moisture consistency.

More precisely for:

- concretes with a moist-earth consistency (and in particular self-locking blocks and screeds);
- waterproofing of undergrounds, tanks and canals;
- façade plasters
- Renovation of wet rooms
- insulation of walls against moisture.

SPECIFICATIONS

State	liquid
Color	white
Specific gravity at 20°C (kg/dm ³)	1.01 ± 0.02
Chlorides	Absent

SHEET



TEKNA CHEM S.p.A.

Factory: Renate (MB) - Via Sirtori, 18 - 20838 - Tel. +39 0362.91.83.11

Web: www.teknachemgroup.it - E-mail: info@teknachemgroup.it - Fax: +39 0362.91.93.96



HOW TO USE

TEKNAPROOF K is a ready-to-use liquid product that is introduced into cementitious mixtures at the time of their packaging, immediately after the addition of the necessary water from the mixture.

It is therefore advisable to mix the product thoroughly and use it without any dilution.

TEKNAPROOF K is compatible with all additives in the TEKNA CHEM range so it can be used in combination with our superplasticizers or plasticizers, although we recommend always adding additives separately to the mixture, avoiding mixing them before use.

MATURATION/MATURATION

Proper curing of the concrete casting is essential.

It is therefore necessary to try to prevent the concrete from drying prematurely and too quickly, using anti-evaporating membranes: PVC sheets or anti-evaporating liquid film-forming membranes such as TEKNAPUR.

DOSAGE

The quantity of TEKNAPROOF K to be used in the mixtures is always a function of the degree of "hydrophobicity" to be obtained and therefore of the desired waterproofing.

Dosages vary from 0.3 to 0.6 % of the weight of cement, although dosages between 0.3 and 0.4 % (0.3 to 0.4 kg per 100 kg of cement) are to be considered optimal in the field of ready-mix concrete.

Higher dosages may be considered in the case of earth-wet concretes for the production of self-locking blocks and screeds.

Only in the case of concretes characterized by high workability, dosages higher than those indicated here can lead to significant increases in the values of air incorporated.

PACKS

TEKNAPROOF K is sold in:

- 25 kg jerrycans
- 200 Kg drums
- 1000 Kg tanks

STORAGE

The product can be stored in original and intact containers, protected from frost and excessive heat, for 1 year.

It is recommended to store the product at a temperature between + 5 and +35 °C.

The product is frost-resistant.

This is an emulsion product, if the product freezes, it is difficult to recover. It is advisable to store them indoors or rather in a closed environment.

WARNINGS

Under normal conditions of use, the product is not harmful to those handling it.

During application, do not eat, drink or smoke, use protective clothing such as gloves, goggles and a mask.

REGULATORY REFERENCE

Complies with EN 934-2, table T9.

LEGAL

The information contained in this technical data sheet, although representing the most advanced stage of knowledge, does not exempt the user from carrying out accurate preliminary tests in his own conditions of use and operation. Therefore, no liability is accepted for improper use of the product.

