

# HIDROFOB T

*Water resisting admixture for concrete and mortar*

*In compliance with: EN 934-2: T9*

## FIELD OF APPLICATION

As concrete admixture, Hidrofob T prevents capillary absorption of water through concrete sections, making the concrete water-resistant. It increases durability of concrete subjected to permanent contact with water and moisture. It is recommended for objects in contact with water, ice, salt and objects exposed to carbonation (e.g. underground structures, harbor facilities, reservoirs, foundations, retaining walls). Hidrofob T is used for construction of underground structures using "white tank" system.

## PROPERTIES

- Enables sealing micro-pores in concrete, thus preventing absorption of water and harmful substances in the concrete structure;
- Increases concrete resistance to penetration of water under pressure;
- Reduces concrete capillary absorption;
- Prevents penetration and migration of chlorides inside concrete;
- Decreases carbonation of concrete;
- Increases durability of concrete exposed to ice, salt and high concentration of CO<sub>2</sub>;
- Decreases concrete efflorescence;

## TECHNICAL FEATURES

PROPERTY	METHOD	DECLARED VALUE
Appearance	Visual	brown liquid
Density (at 20°C)	ISO 758	(1,18÷1.03) g/cm <sup>3</sup>
pH-value (at 20°C):	ISO 4316	4±1
Chlorides content:	EN 480-10	≤0.1%
Alkali content:	EN 480-12	≤2.0%

## DOSAGE AND PERFORMANCE:

Hidrofob T is added in the fresh concrete mixture during the production of concrete. Recommended dosage of Hidrofob T is between 0,7% to 2,0% of the cement mass in the concrete mix. In order to achieve high performances of water-resistance of concrete, it is recommended for Hidrofob T to be used for concrete with strength above 30MPa. It is also crucial for the complete process of production, transport, application and curing of concrete to be appropriate to the construction site conditions.

Concreting (especially of massive foundation slabs), must be carried out continuously, and every next layer of concrete must be re-vibrated and homogenized with the previous. In case of working at high ambient temperatures, it is recommended for Hidrofob T to be used in combination with plasticizers or superplasticizers, or alternately to use Hidrofob Fluid. Furthermore, it is necessary to implement measures for curing fresh concrete (covering, soaking with water, and using curing compounds).

**Effects of overdose:** Overdosing Hidrofob T can cause rapid loss of workability of fresh concrete.

## COMPATIBILITY

Hidrofob T is compatible with number of additives from ADING production program. Hidrofob T is compatible with all types of Portland cement, including sulfate-resistant cements.

If two or more additives are used in the concrete mixture, it is necessary to make preliminary tests. Hidrofob T is not compatible and should not be used in combination with admixtures that contains polycarbocsilates such as Superfluid 21, Superfluid 21 Eko, Superfluid 21M Eko, Superfluid 21 M1M Eko, Superfluid 21 MS Eko, Superfluid 21 F. Combining these materials with Hidrofob T can cause of consistency of concrete.

In order to achieve high water-resisting effects, it is recommended to use Hidrofob T in combination with water reducing admixtures - plasticizers and superplasticizers.

Various additives are dosed separately i.e. they are not to be inter-mixed prior to application in the concrete mixture.

## PACKAGING

Plastic cans: 5 and 25 kg


Plastic barrels: 240 kg

Containers: 1200 kg

## STORAGE

In original package at temperatures from 5°C to 35°C, protected from direct sunlight. Shelf life: 24 months.

## CE MARKING

 2032	
ADING AD Skopje, Novoselski pat (ul 1409) br.11 1060 Skopje, North Macedonia 14 GAEB001/6 EN 934-2:2009+A1:2012 <b>HIDROFOB T</b> Water resisting admixture for concrete EN 934-2:T9	
Chloride ion content	<b>≤ 0,1% by mass</b>
Alkali content	<b>≤ 2,0% by mass</b>
Corrosion behaviour	<b>Contains components only from EN 934-1:2008, Annex A.1</b>

**Health hazard:** Hidrofob T does not contain toxic substances, however contact with the skin and eyes should be avoided, and material should not be swallowed. In case of contact to skin or to eyes, rinsing is required with clean running water. If swallowed, medical assistance must be immediately requested. Additional formations are provided in Material Safety Data Sheet for the material.

**Fire:** Hidrofob T is a non-flammable liquid. Additional formations are provided in Material Safety Data Sheet for the material.

**Cleaning and deposit:** Hidrofob T is cleaned with water. Old and used packaging must be disposed according to local regulations for that type of waste. Additional formations are provided in Material Safety Data Sheet for the material.