# 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 trough 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;
- Deceases carbonation of concrete;
- Increases durability of concrete exposed to ice, salt and high concentration of $CO_2$;
- Deceases concrete efflorescence;

## TECHNICAL FEATURES

| PROPERTY | METHOD | DECLARED VALUE |
|---|---|---|
| Appearance | Visual | brown liquid |
| Density (at 20ºC) | ISO 758 | (1,18÷1.03) g/cm$^3$ |
| pH-value (at 20ºC): | 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 30 MPa. 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 cared 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.





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## 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.
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 kg, 20 kg 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

CE
2032

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GAEB001/6

EN 934-2:2009+A1:2012

**HIDROFOB T**

Water resisting admixture for concrete

EN 934-2:T9

| | |
|---|---|
| Chloride ion content | **≤ 0,1% by mass** |
| Alkali content | **≤ 2,0% by mass** |
| Corrosion behaviour | **Contains components only from EN 934-1:2008, Annex A.1** |

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.



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