

# HIDROFOB FLUID

*Water resisting and water reducing / plasticizing admixture  
In compliance with: EN 934-2 Table 9*

## FIELD OF APPLICATION

As a concrete admixture Hidrofob Fluid prevents capillary rising of water through concrete cross sections. Additionally, Hidrofob Fluid has a plasticizing effect and allows reduction of water on concrete. Hidrofob Fluid increases the durability and resistance of concrete intended for permanent contact with water and exposure to chemical aggression. It is recommended for preparation of concrete exposed to chlorides from seawater, salt, frost and carbonation (example: underground structures, port facilities, tunnels, bridges, bridges, foundations, purification stations, etc.). It is used for the construction of waterproof underground structures according to the "white tank" system.

## PROPERTIES

- Increases the resistance of concrete to penetration of water under pressure;
- Reduces capillary absorption of water in concrete sections;
- Enables water reduction up to 15%;
- Enables an increase of strength characteristics of concrete;
- Increases workability of concrete;
- It prevents the penetration and migration of chlorides through concrete;
- Reduces the carbonization of concrete;
- Increases durability of concrete exposed to frost, salts and high concentration of CO<sub>2</sub>;
- Reduces the efflorescence;
- Allows application of secondary protective and decorative coatings;

## TECHNICAL FEATURES

PROPERTY	METHOD	DECLARED VALUE
Appearance	Visual	brown liquid
Density (at 20°C)	ISO 758	(1.16±0.03) 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	≤4%

## DOSAGE AND PERFORMANCE:

Hidrofob Fluid is dosed during the preparation of concrete in the fresh concrete mixture. Recommended dosage is 1,0 - 2,0% from cement weight, and it enables water reduction up to 10-15%. In order to achieve high performance and watertightness of concrete, it is important that the complete process of preparation, transport, installation and curing of concrete be in accordance with the conditions at the object. Dosing of admixtures is performed manually or automatically during the concrete production. Best effect is achieved in cases when Hidrofob Fluid is applied with 20% to 30% from required water quantity at previously prepared mixture of aggregate, cement and 70% from required water quantity. Duration of mixing of concrete when Hidrofob Fluid is used should not to be shorter than 90 seconds.

**Effect from overdosing:** Overdosing of Hidrofob Fluid can cause segregation of fresh concrete.

## COMPATIBILITY

Hidrofob Fluid is compatible with number of admixtures from the product range of ADING. Hidrofob Fluid is not compatible and should not be used in combination with the admixtures that are poly-carboxylate based, such as: Superfluid 21, Superfluid 21EKO, Superfluid 21F, Superfluid 21MC EKO, Superfluid 21M EKO and Superfluid 21M1M EKO. Hidrofob Fluid is compatible with all types of Portland cement, including sulphate-resistant cements.

If two or more admixtures are used in the concrete mixture, it is necessary to make preliminary tests. Different admixtures are batched separately i.e. are not intermixed with each other prior to insertion into the concrete mixture.


## PACKAGING

Plastic cans: 5 и 25 kg  
Drums: 240 kg  
Containers: 1200 kg

## STORAGE

In the original packaging at temperature between 5°C and 35°C protected from direct exposure to sunlight. Shelf life: 12 months.

## CE MARKING

 2032	
ADING AD Skopje, Novoselski pat (ul 1409) br.11 1060 Skopje, North Macedonia 08 GAEC001/5 EN 934-2:2009+A1:2012 <b>HIDROFOB FLUID</b> Water resisting admixture for concrete EN 934-2:T9	
Chloride ion content	<b>≤ 0,1% by mass</b>
Alkali content	<b>≤ 4,0% by mass</b>
Corrosion behaviour	<b>Contains components only from EN 934-1:2008, Annex A.1</b>

**Health hazards:** Hidrofob Fluid does not contain toxic materials. Nevertheless, avoid contact of the product with skin and eyes and avoid swallowing. In case of contact with skin or eyes, rinse it immediately with clean running water. If swallowed, seek medical assistance. Additional information are provided in the Safety Data Sheet of the product.

**Fire:** Hidrofob Fluid is a non-flammable liquid. Additional information are provided in the Safety Data Sheet of the product.

**Cleaning and disposal:** Residues of Hidrofob Fluid are cleaned with water. Old and used packaging should be disposed of in accordance with local rules and regulations for that type of waste. Additional information are provided in the Safety Data Sheet of the product.