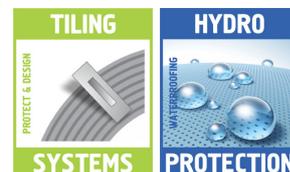


## HYDROSTOP® SINGLE-COMPONENT CEMENT-BASED HYDRO INSULATION

cement-based waterproofing coating  
for long-term protection against moisture  
of non-deformable mineral surfaces and construction elements



### Scope of use

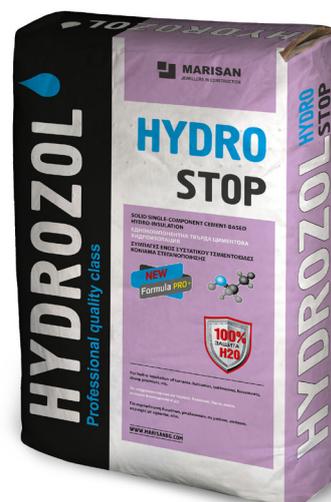
HYDROSTOP® SINGLE-COMPONENT CEMENT-BASED HYDRO INSULATION is waterproofing coating for protection against moisture of non-deformable mineral surfaces (cement-based screed and surfaces, concrete, masonry, lightweight concrete and cement blocks with smooth surface and grouts, etc.).

The hydro insulation layer forms seamless waterproofing coating which has stable connection to the surface after it dries up. The product can be applied on both horizontal and vertical surfaces.

HYDROSTOP® SINGLE-COMPONENT CEMENT-BASED HYDRO INSULATION is suitable for hydro insulation of interior in basements and underground premises, elevator shafts as well as flat monolithic containers for non-potable water (max. 4 m).

The product is not recommended for hydro insulation of elements which are subjected to the negative water pressure, high mechanical load, high temperature amplitude or frequently changing atmospheric conditions! The hydro insulation layer is resistant to aging and it preserves its good hydro insulation qualities for a very long period of time. It is obligatory to protect the hydro insulation by plaster, floor covering or ceramic tiling.

In order to waterproof deformable bases, as well as places which are subjected to high mechanical loads, the use of HYDROZOL® ELASTIC WATERPROOFING SLURRY is recommended.



### Properties

protection against moisture	resistant to freezing
stable connection with the base	economical way of hydro insulation
can be applied on horizontal and vertical surfaces	easy to use – it is layered by spreading/plastering

## Composition

Cement-based mixture which contains fine-grained fillers, water repellent additives, silicone and styrene-acrylic polymers.

## Packaging and Indicative consumption

### Package:

Paper bags of 10; 25 kg

### Indicative consumption:

2,0 – 2,6 kg/m<sup>2</sup> per layer of 1,0 – 1,5 mm

## Expiration date and Storage

Store and transport in tightly sealed original packaging in dry and cool environment (best on pallets). Do not store in temperatures below + 5°C and over + 30°C.

### **Keep away from moisture!**

The product is good for use 12 months after production date of an unopened original packaging.

## Instructions for Use

### Base Preparation

HYDROSTOP® SINGLE-COMPONENT CEMENT-BASED HYDRO INSULATION is used over all bases which are strong, bearing and do not contain separating substances (grease, dust and others). The surface should be clean, stable, without cracks. Remove all unstable areas and layers with weak mechanical resistance.

The base could be damp but without visible water film. If the surface is soaked with water or constantly wet, the layer of hydro insulation cannot dry up.

Uneven masonry should be leveled with cement-based plaster. If the grout is not strong, the joints should be filled with TERAFLIX® CONSTRUCTION ADHESIVE. All cavities and bumps should be filled with it. Sharp edges should be cut out and rounded. Outer edges should be processed at approximate chamfer of 3 cm and within all inner edges cove formers should be mounted with min 4 cm radius.

### Mixture preparation

In a clean, stainless steel container, while constantly stirring with slow-rotating electric drill add the dry mixture (25kg) to 8,25l water. The mixture should be left to mature for around 5 minutes and then shortly stirred again. Prepared in this way, the mixture preserves its qualities around 2 hours in temperature of 20-25°C.

**It is not allowed for cement, sand and other materials to be added to the hydro insulation mixture for it causes extreme deterioration of its qualities!**

## Application

HYDROSTOP® SINGLE-COMPONENT CEMENT-BASED HYDRO INSULATION should be applied with a plastering knife over the dump (but not wet) base on two or more layers. Each of the layers must be of a thickness of 1-1.5 mm. The applied coat should be protected from rain, too fast drying, direct exposure to sun light and freezing for at least 48 hours after the application. After the first applied coat hardens but it is still damp, apply the second one crosswise. In normal conditions, the layers should be applied in an interval of 3-4 (but no longer than 10h).

In areas with high possibility of cracking, it is necessary in the freshly laid first layer to be integrated alkali-resistant reinforcing non-woven fabric HYDROZOL® REINFORCE GEO-PP.

To ensure the lifetime of the entire waterproofing system, in all corner, connecting and other active joints, it is necessary to incorporate alkali-resistant highly elastic three-layer waterproofing tape HYDROZOL® SEALING TAPE 3L or the flexible waterproofing tape HYDROZOL® SEALING TAPE. For tape installation at the inner and outer room corners it is recommended to use the cornering elements of waterproofing tape HYDROZOL® SEALING CORNER. Embedding of the system pipelines and floor siphons installation is carried out using the different types of waterproofing sleeves of the HYDROZOL® SEALING COLLAR series.

For hydro insulation of cracks, joints, corners and complex shape details, as well as sealing of seams and joints from different materials (bituminous membranes, metal, ceramics, cement surfaces) it is recommended to use the highly elastic self-adhesive HYDROZOL® BUTYL TAPE.

All tapes and waterproofing sleeves should be installed in the first waterproofing layer while it is still fresh. At the application of the second layer, they must be completely and tightly covered.

The period of drying up depends on the absorption ability of the surface, the thickness of the layer as well as the conditions of the environment. In normal weather conditions the hydro insulation coat dries around 48 hours and after 72 hours it can be stepped on.

The surface should be entirely dry before the start of following construction actions. Even after hardening and drying of the coat, it should not be exposed to direct and intensive mechanical loads.

When finishing the application process, the instruments should be cleaned with water. After drying, the hardened coat could be removed mechanically.

## Attention!

**The application of hydro insulation coating should be performed at dry weather and temperatures over +5°C and under 30°C and air humidity under 80%!**

**Do not apply during cold and damp days as well as while it is raining!**

**Do not apply on frozen surfaces!**

**Do not apply under direct sun light!**

**The applied coating should be protected against too rapid drying, frost and rain for min. 3 days!**

**Water pressure exposure is allowed after at least 4 days!**

**Ceramics can be applied 3 days after the application, plasters and other coverings – after 5 days!**

## Hazard description:

Does not contain dangerous chemical substances!  
Quantity of soluble chrome (VI) within the ready-made mass of the product is  $\leq 0,0002\%$ .

## Hazard symbol:



Caution

Risk and Safety Statements (dry component)	
R 36/37/38	Irritating to eyes, respiratory system and skin
R 41	Risk of serious damage to eyes
S 08	Keep container dry
S 24/25	Avoid eye and skin contact

## Classification

Complies with the requirements of European and Bulgarian standards and measures up to:

European Standard	Testing protocols
EN 14891:2017	№ OTP-428-4/№ 01/04.10.2018 № 901/04.10.2018 № 901-1/04.10.2018

## Technical data

Testing protocols are issued by Notified Body (NB 1950) for compliance evaluation with Research Institute of Building Materials NIISM Ltd., Sofia.

Parameter	Measure	Testing method	Testing result
Grip strength after payback at normal conditions	N/mm <sup>2</sup>	BDS EN 14891:2017 (A)	$\geq 0,5$
Grip strength after immersion in water	N/mm <sup>2</sup>	BDS EN 14891:2017 (A)	$\geq 0,5$
Grip strength after thermal treatment at 70 0 C	N/mm <sup>2</sup>	BDS EN 14891:2017 (A)	$\geq 0,5$
Grip strength after freeze/thaw cycles	N/mm <sup>2</sup>	BDS EN 14891:2017 (A)	$\geq 0,5$
Grip strength after stay in lime water	N/mm <sup>2</sup>	BDS EN 14891:2017 (A)	$\geq 0,5$
Grip strength with concrete	N/mm <sup>2</sup>	BDS EN 1015-12:2016	2,60
Ability to bonding cracks: - under standard conditions (23 ±2 °C) - at 0 °C	mm	BDS EN 14891:2017 (A)	$\geq 0,75$ $\geq 0,75$
Waterproofing	-	BDS EN 14891:2017, BLM	sustains pressure 150 kPa

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HYDROSTOP®  
28.11.2011  
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