

HYDROSTOP WATERTANK (PROFESSIONAL)

Flexible, two component gray waterproofing mortar for special applications. Ideal for demanding waterproofings. Unique for potable watertank applications.



TECHNICAL SPECIFICATIONS (Measurement conditions 20 °C and 50% R.H.)

	Component A	Component B
Form	Cementitious mortar	Condensed acrylic polymer. Flexible membrane after application.
Bulk density of dry mortar	1.40±0.05 kg/lt	
Density		1.00±0.05 kg/lt
Mixing ratio (14kg packaging)	10kg powder	4.0 lt acrylic resin
Mixing ratio (35kg packaging)	25 kg powder	10 lt acrylic resin
Application thickness	1mm/coat	
Application temperature	From +5 °C to +35 °C	
Temperature resistance	From -30 °C to +90 °C	
Mixing life	3-4 minutes	
Pot life	Approximately 2 hours	
Foot traffic	After 3-4 hours	
Shrinkage	Negligible	
Water tightness, per DIN 1048	To water pressure of up to 7 Atm (kg/cm ²)	

MECHANICAL STRENGTHS

Permeability S₀ to CO₂ per EN 1062-6	S ₀ = 118 m
Water vapour permeability S₀ per EN ISO 7783-2	S ₀ = 0.18m [class I, (water vapour permeable)]
Capillary water absorption w per EN 1062-3 :	w < 0.009 kg/m ² .h ^{0.5}
Adhesion to concrete, per EN 1542:	> 2.50 N/mm ²

STORAGE

Store in factory sealed packages, in dry and shaded places protected from frost for at least 12 months after production date.

SAFETY DIRECTIONS

Component A: The product contains Portland cement. Before use, refer to the cautions on the product's package or the Material Safety Data Sheet.
Component B: This product needs no hazard labeling under current European and National legislation. It is however recommended to keep away from the reach of children. If swallowed, seek medical advice immediately and show the container or label.

PROPERTIES

Flexible non-toxic waterproofing mortar for demanding applications. Its application to potable water tanks ensures the quality and sanitization of potable water as is certified for that purpose by the State General Chemical Laboratory of Greece (Ref:00178/015/000). The product meets the requirements of regulation EC 1935/2004 Article 28 of the Food and Drinks Code as well as those of German standards «Kunststoffe im Lebensmittelverkehr», § 1.3.2.5. It provides excellent bonding strength and fully waterproofs the applied surfaces for many years. By virtue of its high flexibility and strong adhesion properties, it prevents the appearance of hairline or other shrinkage cracks after the application, while bridging the existing or future cracks of the substrate. Due to its special composition it assists into preserving human health by preventing the migration of hazardous substances into the water of watertanks. It provides excellent protection against carbonation and chloride attack of all cementitious substrates that is applied on, and it provides complete protection against sea (salt) water. Classified as product for surface protection of concrete surfaces (c) per EN 1504-2.

APPLICATIONS

HYDROSTOP WATERTANK (PROFESSIONAL) applications are not limited to just potable water tanks (pic.1).

- The product can successfully waterproof surfaces made of concrete, brick and plaster, cement screed, stone etc.
- It is also applied on surfaces with high water repellency requirements such as underground structures (pic.3), foundations, tunnels and wet floors as well as structures that are subjected to high hydrostatic pressures (positive or negative), such as basements (exterior application, before backfilling and 'therapeutically' in the interior).
- It is recommended for use on sloped roofs made of concrete, before installing clay roof tiles.
- It is applied on bridges and athletic or residential pools (pic.2), etc.
- It is also recommended for the ultimate roof waterproofing system, protecting lightweight screeds, as part of thermal insulation systems, and generally for the waterproofing of any mineral surface exposed to temporary or permanent moisture.

- An additional use of the product is the effective sealing and waterproofing of structures to be planted, such as planters, rooftop gardens, etc. In those cases, the product is totally superior to asphalt roof membranes. Its main advantage, compared to asphalt roof membranes, is that the application of HYDROSTOP WATERTANK is completed throughout the surfaces without any joints. Because the product possesses these properties, it is ideal for inverted roof thermal insulation systems, before the installation of the insulation slabs of choice.
- It is the necessary component and part of the perimeter insulation at ground level (sealing zone), when installing the External Thermal Insulation Composite System, THERMOSEAL of DUROSTICK, or any other such system, on wall surfaces close to or touching the ground.

USE

1. Surface preparation

Correct preparation ensures the perfect result.

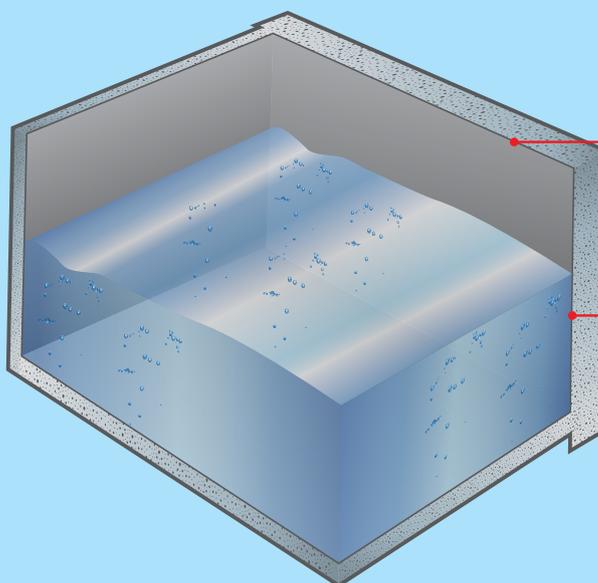
Concrete walls: Cut all formwork pins and snap ties, 2-3cm deep and coat them with the corrosion inhibitor, RUST FREE POWDER of DUROSTICK. After completion, seal the holes using D-55, DUROFIX or SUPER FAST of DUROSTICK. Next, clean all surfaces from any loose materials, oils and salts using the biodegradable cleaner, BIOCLEAR INDUSTRIAL of DUROSTICK.

2. Application

Empty the container with the acrylic emulsion (component B) in a clean container and add slowly, while mixing continuously, the cement mortar (component A). It is recommended to use a low rpm electric mixer, equipped with the appropriate mixing attachment. The mixture remains workable for about 2 hours. HYDROSTOP WATERTANK (PROFESSIONAL) must be applied on well soaked surfaces. Apply with an emulsion brush or roller in 3 crosswise coats, with thickness of 1mm each one. The new coat must be applied when the previous becomes walkable. If the previous coat is allowed to dry, soak the surface again. The product should not be applied at temperatures below + 5 °C or when there is a likelihood of rain in the next 6 hours.

Unique for tanks of potable water

Its special formula does not allow migration of harmful substances in water, thus safeguarding human health.



Absolutely waterproofs surfaces made of concrete, brick and plaster, cement screed, stone as well as aircrete etc.

It provides excellent protection against carbonation, chloride attack and provides complete protection from sea (salt) water.

NOTES

- For potable water tanks it is essential to observe hygiene rules (chlorination of water, avoidance of contact with insects, etc.).
- If you need better workability of the mixture, the first coat can be diluted 5% to 10% with clean, fresh water.
- Before filling, the water tank must be rinsed thoroughly with plenty of water.
- The tank can be used after a period of at least seven days from the application date of the product, without any health concerns.
- After curing, the product is harmless to health.

ATTENTION

In order to complete a problem-free waterproofing seal within water tanks, create a curved cement coving around all internal corners of the tank, where the walls meet the floor. Coat the coving with three layers of HYDROSTOP WATERTANK PROFESSIONAL, encasing in it

the fiberglass mesh, DS-490 of DUROSTICK (cut strips 20cm wide) between the second and third coat.

CLEANING

Clean all tools with water, immediately after use.

CONSUMPTION

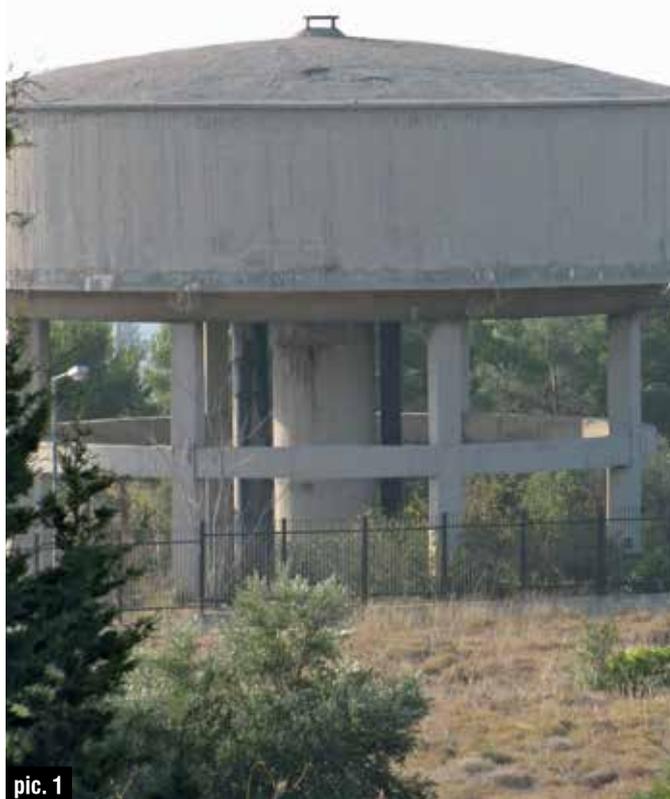
1.3 kg/m²/mm thick coat.

Moisture: 2.6 kg/m² (2 coats), **Pressurized water:** 5.0 kg/m² (4 coats), **Roof garden:** 5.0 kg/m² (4 coats).

PACKAGING

- 14 kg container (2x5kg mortar + 4lt resin) on a 32 container pallet
- 35 kg set (25kg mortar + 10lt resin).

ITS FLEXIBILITY PREVENTS THE SURFACING OF FUTURE CRACKS



pic. 1



pic. 2



pic. 3