

HYDROSTOP WATERTANK (PROFESSIONAL)



Flexible, 2 component gray waterproofing mortar for special applications
Ideal for demanding waterproofings. Unique for potable water tank applications



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 water tanks. 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.

- The product can successfully waterproof surfaces made of concrete, brick and plaster, cement screed, stone etc.
- Suitable for crack repairs around slates and floor slabs
- It is also applied on surfaces with high water repellency requirements such as underground structures, 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).

The technical specifications and directions of use contained in this technical brochure are the results of the knowledge and experience of the company's research and development department, as well as from the real-life applications of the product. The recommendations and suggestions regarding the use of the products are made without guarantee since the respective conditions during their application are beyond the control of the company. For this reason, it is the user's responsibility to make sure that the product is suitable for the intended application as well as the application conditions of the project.

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- 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 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 these cases, the material is absolutely equivalent to the asphalt or the film, having as a main advantage that the coating is applied to the entire surface and thus avoiding splicing. Due to its properties, it is the ideal material for inverted roof insulation (relevant system COOL ROOF INVERTED of DUROSTICK), before the installation of thermal insulation materials.
- It is the necessary component and part of the perimeter insulation at ground level (sealing zone), when installing the External Thermal Insulation 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: Remove all concrete wood ties, polystyrene as well as all protrusions. 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, D-11 SUPER FAST or DS-247 of DUROSTICK. Then, clean all surfaces from any loose materials, oils and salts using the biodegradable cleaner, BIO-CLEAN 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 or dry to the touch. If the previous coat is allowed to cure, soak the surface again. The product should not be applied at temperatures below +5°C or when there is a chance of rain the next 6 hours.

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. If you need better workability of the mixture, you may, dilute it from 5% to 10% with water in the first coating.
- Before filling, the water tank must be rinsed thoroughly with plenty of water.
- The tank can be used at least 7 days after the application of the sealant.
- After curing, the product is harmless to health

ATTENTION

For absolutely secure seals when applying in tanks precedes the creation of a curved cement coving around all internal corners, and applying to them [between second and third coat of HYDROSTOP WATERTANK (PROFESSIONAL)], the fiberglass mesh, DS-490 of DUROSTICK (cut strips 20cm wide).

CLEANING

Clean all tools with water, immediately after use.

CONSUMPTION

1.3 kg/m²/mm thick coat

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

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STORAGE

Store in factory sealed packages, in dry and shaded places protected from frost for up to 12 months from 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.

PACKAGING

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



DUROSTICK S.A.,
MANUFACTURING OF ADHESIVES, PAINTS & MORTARS
ATHENS: ASPROPYRGOS, ATTICA, GR: 193 00, Tel: +30 211 60 03 500-599, +30 210 55 16 500, +30 210 55 98 350, Fax: +30 210 55 99 612
THESSALONIKI: INDUSTRIAL PARK-SINDOS, S.B. 44, STREET, DA 10, GR: 570 22, Tel: +30 2310 795 797, +30 2310 797 365, Fax: +30 2310 797 367
Email: info@durostick.com

TECHNICAL SPECIFICATIONS

(Measurement conditions 20°C και 50% R.H.)

	Component A	Component B
Form	Cementitious powder	Condensed acrylic polymer. Flexible membrane after application
Color	Gray	White
Bulk density of dry mortar	1.40±0.05kg/lt	
Density		1.00±0.05kg/lt
Mixing ratio (14kg packaging)	10kg powder	4.0lt resin
Mixing ratio (35kg packaging)	25kg powder	10lt resin
Application thickness	1mm /coat	
Application temperature	From +5°C to +35°C	
Temperature resistance	From -30°C to +90°C	
Mixing time	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)	

PRODUCT PERFORMANCES

Permeability S_D to CO₂ per EN 1062-6	S _D > 50m
Water vapour permeability S_D per EN ISO 7783-2	S _D ≤ 2,5m (class I, Water vapour permeable)
Capillary water absorption w per EN 1062-3	w ≤ 0,015kg/m ² .h ^{0.5}
Adhesion to concrete, per EN 1542	≥ 0,80 N/mm ² (flexibility system, bridging cracks)
Impact resistance per EN ISO 6272-1	45Nm (class III)
Crack-bridging properties per EN 1062-7	Class A5 (> 2,5mm at -10°C)
Reaction to fire, after application, per EN 13501-1	Euroclass F

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