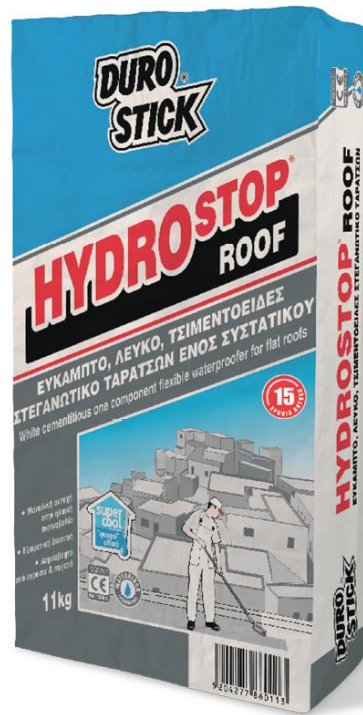


# HYDROSTOP ROOF



White cementitious one component flexible waterproofer for flat roofs



## PROPERTIES

Flexible and brushable, one-component white mortar, that is mixed only with water. An innovative waterproofing product for roofs that provides long-lasting waterproofing solutions. Its formula consists of high-quality cement, selected quartz aggregates, acrylic, water-repelling and elastomeric resins. It is water vapour permeable without being water permeable, providing a constant coefficient of thermal conductivity ( $\lambda$ ) of the roof insulation. Presents excellent adhesion and covers hairline cracks. Before coating, place the self-adhering fiberglass tape DS-230 over all the cracks. Protects concrete effectively from carbonation. The durable and flexible membrane created after its application is highly durable against solar radiation and protects against standing water and frost. It also participates in integrated thermal waterproofing systems for roofs, COOL ROOF and COOL ROOF LIGHT of DUROSTICK.

Certified by the University of Athens (Department of Physics, Division of Applied Physics), as 'Cool' material of low thermal conductivity and

high reflectivity. Classified as product for surface protection of concrete surfaces (c) per EN 1504-2 (principles 2,5/MC, PR/moisture control, physical resistance, increasing resistivity).

## APPLICATIONS

HYDROSTOP ROOF is mainly used for roof waterproofing, on properly prepared surfaces to ensure long-lasting protection. It is suitable for waterproofing basements before their backfilling. However, it is necessary to protect the waterproofing coating by covering it with dimple membrane throughout the waterproofed surface. The product can be applied indoors, to seal the basement walls. Before the application, remove the affected by moisture plaster from part or the entire basement wall surface. Ideal for waterproofing surfaces that have, or may develop in the future, hairline cracks from expansions and vibrations. These surfaces could be balconies, above ground storage tanks, swimming pools etc. It is recommended for sealing surfaces before tiling. Suitable for the perimeter waterproofing of exterior walls, preventing rising damp from bouncing

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rain, just by coating 15-30cm of wall surface from the ground level.

### USE

#### 1. Surface preparation

When dealing with non-sealed roofs, first remove loose sections, dust, oils, grease, moss and algae. Parts of the surface that need preparation (smoothing or pitching), should be primed using the acrylic emulsion D-20 of DUROSTICK. Before the emulsion dries, apply DUROSTICK D-6, fiber-reinforced cement screed, as needed.

Optionally, the use of traditional cement screeds must be fortified using DUROSTICK D-20, at a mixing ratio of 1:1 with water or DUROMAX at a mixing ratio of 1:5 with water. Prime all areas that have multiple cracks, from 0.5-1mm wide, using AQUAFIX, the solvent free acrylic micromolar primer.

Once dry, apply HYDROSTOP ROOF to cover the cracks. Sections with cracks of 1-3mm width are primed with the polyurethane primer PRIMER-PU and then they are sealed using DUROFLEX-PU of DUROSTICK. Cracks wider than 3mm are sealed using the injecting epoxy resin DUROSTICK D-33.

#### Notes:

- When dealing with flat roofs subjected to heavy loads and mechanical stresses, or terrace surfaces over 60m<sup>2</sup>, it is recommended to encase within the first, still fresh, layer of HYDROSTOP ROOF, the alkaline resistant fiberglass mesh DUROSTICK DS-490 (mesh opening: 4x4mm, weight: 90gr/m<sup>2</sup>). Follow by applying necessarily two more coats of HYDROSTOP ROOF. This ensures exceptionally durable waterproofing for up to 15 years.
- The addition of any improving emulsions into HYDROSTOP ROOF is strictly prohibited.
- The addition of pigments in powder form, DUROCOLOR POWDER-C (inorganic oxides coated with vinyl resins) into the mixing water of HYDROSTOP ROOF, creates a perfect combination of colored and long-term waterproofing with soft, permanent colors for unlimited applications.
- After hardening, the product is harmless to health.

#### 2. Existing surface preparation

- When the surface has been coated previously with a torch-down waterproofing system, remove it using a wide roofing scraper and a roofing torch simultaneously
- Worn-out or detached elastomeric sealants, are removed using a roofing scraper or other mechanical means.
- Detached elastomeric materials, that are not visible, are located using a garden hose. Pour water on the roof surface from about 1 meter high. Notice the change of the sound the water makes when it hits the detached parts of the waterproofing and mark them. Cut the detached sections using a razor blade and scrape the defective material off.
- Existing cementitious waterproofing layers that are well adhered, must be first cleaned from any mud rain residues with water, and once thoroughly dry, coat the surface with HYDROSTOP ROOF.

#### 3. Application

Apply HYDROSTOP ROOF on thoroughly soaked (dampened) surfaces, without any standing water. Coat the surface with 2-3 cross-wise coats, 1mm thick each one, using an emulsion brush or roller.

Empty the bag into a clean container with water, at a mixing ratio of 11kg HYDROSTOP ROOF to 3.3-3.5lt water. Mix using a low-rpm drill, equipped with the appropriate attachment (recommended). Mix until a lump-free homogeneous mass is obtained, that can stay on the emulsion brush or roller without dripping.

The mixture remains workable for 2 hours. The second and third coat may be applied within 2-3 hours without additional soaking. Do not apply at temperatures below + 5°C and above + 35°C, or when the area forecast shows rain for the next 12 hours, after the application. When applying the product during the summer months, the final coat should be protected from strong sunlight, until fully cured. Best applied during the evening Hours and soak every 12 hours for the next 24 hours, to avoid premature dehydration.

#### CLEANING

Clean all tools with water immediately after use.

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## CONSUMPTION

1.0kg/m<sup>2</sup>/mm thick coat

## STORAGE

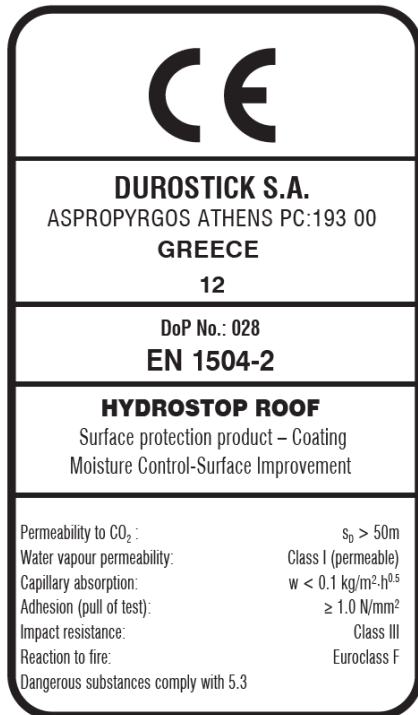
Store in factory sealed packages, in dry and shaded places, for at least 12 months from production date.

## SAFETY DIRECTIONS

The product contains Portland cement. Before use, refer to the cautions on the product's package or the Material Safety Data Sheet.

## PACKAGING

Paper bag of 11kg each one on a 594kg pallet



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

Form - Color	Cementitious mortar - White
Toxic	No
Bulk density of dry mortar	1.02±0.05kg/lt
Bulk density of fresh mortar	1.60±0.05kg/lt
Maximum grain size	0.50mm
Water requirement	3.3lt water in 11kg mortar
Application temperature	From +5°C to +35°C
Temperature resistance	From -35°C to +90°C
Pot life	2 hours
Coat thickness	1 mm/ coat
Foot traffic	After 3 hours
Water tightness per DIN 1048	To water pressure up to 7 Atm (kg/cm <sup>2</sup> )
Reflectivity to solar radiation per ASTM E 903-96 & ASTM G159-98	82 [SRvis%]

## PRODUCT PERFORMANCES

Permeability s <sub>D</sub> to CO <sub>2</sub> per EN 1062-6 (method A)	s <sub>D</sub> = 300m
Water vapour permeability s <sub>D</sub> per EN ISO 7783-2	s <sub>D</sub> ≤ 2m (class I, water vapour permeable)
Capillary water absorption w per EN 1062-3	w ≤ 0,02kg/m <sup>2</sup> .h <sup>0.5</sup>
Adhesion to concrete per EN 1542	≥ 2,80 N/mm <sup>2</sup>
Impact resistance per EN ISO 6272-1	50Nm (class III)
Abrasion resistance BCA per EN 13892-4	150 ± 20µm
Reaction to fire, after application per EN 13501-1	Euroclass F

## DUROSTICK S.A.,

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