

HYDROSTOP 2 COMPONENT



White cementitious flexible waterproofer for roofs and vertical surfaces



PROPERTIES

Two-component flexible and brushable, cementitious, waterproofing white mortar. It is suitable for long lasting waterproofing of flat roofs and balconies, walls, concrete, as well as cement blocks and bricks. Once fully cured, it is resistant to standing water and frost, but also allows for the breathability of the surfaces it was applied on. Its special composition ensures excellent resistance to the deteriorating effect of UV radiation exposure and exceptional walkability without sticking. It effectively protects concrete from carbonation. Classified as product for surface protection of concrete surfaces (c) per EN 1504-2 (principle 2/MC/ moisture control).

APPLICATIONS

HYDROSTOP 2 COMPONENT is mainly used for the waterproofing of flat roofs, on properly prepared surfaces. It is also used as a substrate, even on surfaces with hairline cracks, to be lined with clay roofing tiles. As a coating, it seals surfaces made of cement blocks and bricks, aircrete, as well as outdoor plastered wall surfaces,

etc. It is superb for protecting and sealing the sides of the house not exposed to enough sunlight, when applied in two consecutive, crosswise coats. It is also suitable for waterproofing basements externally, before their backfill. However, it is necessary to protect the waterproofing coating by covering it with dimple membrane throughout the waterproofed surface. The product can also 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(s).

Coat the perimeter surfaces at least 15-30cm high from the ground up, to seal them and prevent rising damp caused from the bouncing rain.

USE

1. Surface preparation

On non-sealed flat roofs, remove any loose materials and dust, using a stiff broom and plenty of water. Cracks of 0.5-1mm width are primed using AQUAFIX, the acrylic micromolar stabilizer (without solvents). Once dry, seal the cracks using HYDROSTOP 2 COMPONENT. Sections

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with cracks of 1-3mm width are primed with the polyurethane sealant primer, PRIMER-PU and they are then sealed using DUROFLEX-PU of DUROSTICK. Cracks wider than 3mm are sealed using the injecting epoxy resin DUROSTICK D-33. It is however advisable that cracks larger than 3mm wide should be inspected by an engineer or another qualified professional.

Notes:

- When dealing with flat roofs subjected to heavy loads and mechanical stresses or terrace surfaces over 60m², it is recommended to encase within the first, still fresh, coat of HYDROSTOP 2 COMPONENT, the alkaline resistant fiberglass mesh DUROSTICK DS-490 (mesh opening: 4x4mm, weight: 90gr/m²). Follow by applying necessarily two more crosswise coats of HYDROSTOP 2 COMPONENT. This will cover any minor substrate imperfections, it will ensure exceptionally durable waterproofing for up to 15 years and give unique durability against any standing water.
- After curing, 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. 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 cleaned with water from any mud rain residues, and once thoroughly dry, coat the surface with HYDROSTOP 2 COMPONENT. The number of coats and the use of mesh depends on the size of the coated surfaces.

3. Application:

Pour the acrylic resin (B' component) in a clean container and slowly add the cementitious mortar (A' component), while constantly mixing with a low-rpm drill, equipped with the appropriate attachment (recommended). The mixture remains workable for 3 hours, time enough to apply the entire quantity. HYDROSTOP 2 COMPONENT is applied on well soaked surfaces. Apply using an emulsion brush or roller. Apply three crosswise coats, 1mm thick each one. Each coat is applied within 2.5-3 hours, as soon as the previous coat is walkable. Re-soak the surface, if more time passes and the product has dried out. Do not apply in temperatures below +5°C or if there is a chance of rain for the next 6 hours, after the application. When applying the product during the summer months, it is recommended to protect the application area from premature dehydration, by soaking the surface every 12 hours for the next 24 hours.

CLEANING

Clean all tools with water, immediately after use.

CONSUMPTION

1.0-1.3kg/m²/mm thick coat

STORAGE

Store in factory sealed packages, in dry and shaded places protected from frost, for at least 18 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

Container of 16kg (2x5.6kg mortar + 1x4.8kg resin) on a 32 pc. Pallet

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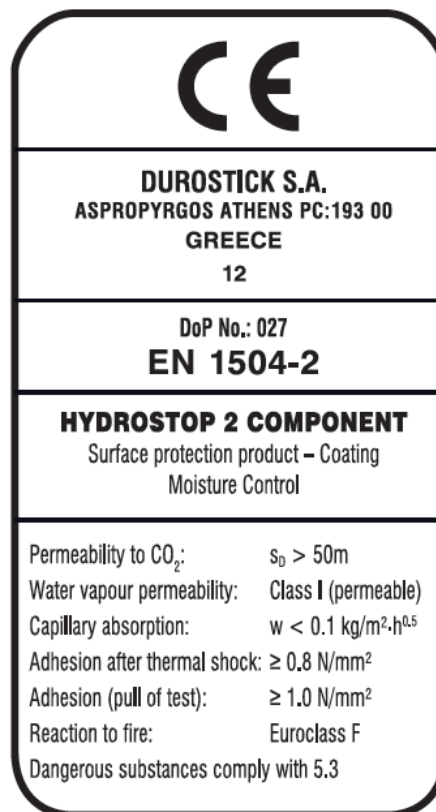
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TECHNICAL SPECIFICATIONS (Measurement conditions 20°C and 50% R.H.)

	Component A	Component B
Form	Cementitious mortar	Condensed acrylic styrene. Flexible membrane after application.
Color	White	
Bulk density of dry mortar	1.10±0.05kg/lt	
Density	1.00±0.05kg/lt	
Mixing ratio	11.2kg mortar	4.8kg acrylic resin
Application temperature	From +5°C to +35°C	
Temperature resistance	From -20°C to +75°C	
Mixing time	3-4 minutes	
Pot life	At least 3 hours	
Foot traffic	After 3 hours	
Backfilling	After 3 days	
Tile installation	After 2 days	
Shrinkage	Negligible	
Water tightness, per DIN 1048	To water pressure of up to 7 Atm (kg/cm ²)	
Resistance to UV radiation	High	

PRODUCT PERFORMANCES

Permeability s_D to CO₂ per EN 1062-6	$s_D > 50m$
Water vapour permeability s_D per EN ISO 7783-2	$s_D \leq 0.50m$ [class I (water vapour permeable)]
Capillary water absorption w per EN 1062-3	$w \leq 0.04kg/m^2 \cdot h^{0.5}$
Adhesion to concrete, per EN 1542	$\geq 0.80N/mm^2$ (flexible system)
Adhesion after thermal shock, per EN 13687-2	45Nm (class III)
Reaction to fire, after application, per EN 13501-1	Euroclass F



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