

# TWO COMPONENT HYDROSTOP

White cementitious flexible waterproofer for roofs and vertical surfaces



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

	Component A	Component B
<b>Form</b>	Cementitious mortar	Condensed acrylic styrene. Flexible membrane after application.
<b>Color</b>	White	White
<b>Bulk density of dry mortar</b>	1.10±0.05 kg/lt	
<b>Density</b>		1.00±0.05 kg/lt
<b>Mixing ratio</b>	11.20 kg	4.8kg acrylic resin
<b>Application temperature</b>	From +5 °C to +35 °C	
<b>Application temperature</b>	From -20 °C to +75 °C	
<b>Mixing time</b>	3-4 minutes	
<b>Pot life</b>	3 hours	
<b>Foot traffic</b>	After 3 hours	
<b>Backfill</b>	After 3 days	
<b>Tile installation</b>	After 2 days	
<b>Shrinkage</b>	Negligible	
<b>Water tightness, per DIN 1048</b>	To water pressure of up to 7 Atm (kg/cm <sup>2</sup> )	
<b>Resistance to UV radiation</b>	High	

## MECHANICAL STRENGTHS

<b>Permeability S<sub>p</sub> to CO<sub>2</sub>, per EN 1062-6</b>	S <sub>p</sub> > 125 m
<b>Water vapour permeability S<sub>p</sub>, per EN ISO 7783-2</b>	S <sub>p</sub> < 0,35 m [ class I, (water vapour permeable)]
<b>Capillary water absorption w per EN 1062-3 :</b>	w < 0.02 kg/m <sup>2</sup> .h <sup>0.5</sup>
<b>Adhesion to concrete, per EN 1542:</b>	> 2.35 N/mm <sup>2</sup>

## CLEANING

Clean all tools with water immediately after use.

## CONSUMPTION

1.0-1.3kg/m<sup>2</sup>/mm thick coat.

## 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

## 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. After its cure, it is resistant to standing water and frost. It 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. Classified as product for surface protection of concrete surfaces (c) per EN 1504-2.

## APPLICATIONS

TWO COMPONENT HYDROSTOP is mainly used for the waterproofing of flat roofs, on properly prepared surfaces. Apply it in 3 layers of 1mm thickness each one, granting a 15 year warranty. 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 possible 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 TWO COMPONENT HYDROSTOP. Sections with cracks of 1-3mm width are primed with the polyurethane sealant primer, PRIMER-PU, and they are then sealed using DUROSTICK DUROFLEX-PU. 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 60m<sup>2</sup>, it is recommended to encase within the first, still fresh, layer of DUROSTICK TWO COMPONENT HYDROSTOP, 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 TWO COMPONENT HYDROSTOP HYDROSTOP. This ensures exceptionally durable waterproofing for at least 15 years.
- 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 TWO COMPONENT HYDROSTOP. 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 electric mixer, equipped with the appropriate attachment (recommended). The mixture remains workable for 3 hours, time enough to apply

the entire quantity. TWO COMPONENT HYDROSTOP 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 when the area forecast shows rain for the next 6 hours, after the application. When applying during the summer months, it is recommended to protect the application area from premature de-

hydration, by soaking the surface every 12 hours for the next 24 hours.

#### STORAGE

Store in factory sealed packages, in dry and shaded places, protected from frost, for a minimum of 18 months after production date.

## TOTAL WATERPROOFING in 6 simple steps

