

TWO COMPONENT HYDROSTOP



White cementitious, flexible waterproofer for roofs and vertical surfaces



■ PROPERTIES

Flexible and brushable, cementitious, waterproofing white mortar. Suitable for long-lasting waterproofing of roofs, balconies and walls. It presents high adhesion to concrete and plaster. Once fully cured, it is resistant to standing water and frost, but also allows for the breathability of the surfaces it protects. 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, principle 1 PI (Protection against Ingress), principle 2 MC (Moisture Control), principle 5 PR (Increase of Physical Resistance), and principle 8 IR (Increase of Resistance).

■ ADVANTAGES

- Exceptionally resistant to temperatures from -20°C to +75°C, adverse weather conditions and the passage of time.

- Resistant to vibrations, expansions and contractions (reinforcement with fiberglass mesh DS-490).

- Protects concrete effectively from carbonation.

■ APPLICATIONS

TWO COMPONENT HYDROSTOP 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 waterproofs surfaces made of cement blocks and bricks, aircrete, as well as exterior plastered wall surfaces, etc. It is superb for protecting and waterproofing the sides of the house not exposed to enough sunlight, when applied in two crosswise coats. It is also suitable for exterior waterproofing of basements, before their backfill. However, it is necessary to protect the waterproofing coating(s) by covering it with dimple membrane throughout the waterproofed surface. The product can also be applied to the interior basement walls to waterproof after the fact. Before the application,

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remove the, affected by moisture, plaster from parts 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

The substrate must be free of dust, mudrain, black spots, mold, etc. Any loose materials and existing coatings (peeled, worn out) must be removed. If there are voids in the concrete they must be filled. Cracks of 0.5-1mm width are primed using AQUAFIX, the acrylic micromolar stabilizer. 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 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.

■ NOTE

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 TWO COMPONENT HYDROSTOP, the alkaline resistant fiberglass mesh DUROSTICK DS-490 (4x4mm mesh opening, 90gr/m² weight). **Follow by applying necessarily two more crosswise coats.**

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.

2. Preparation of surfaces coated with waterproofing product(s):

Detached torch-down roofing, remove it using a wide roofing scraper and a roofing torch simultaneously.

Worn-out or detached elastomeric sealants, remove them using a roofing scraper or other mechanical means.

Existing cementitious waterproofing layers that are well adhered, clean them with water from any mudrain residues, and once thoroughly dry, coat the surface with TWO COMPONENT HYDROSTOP.

3. Application

Pour the acrylic resin (Component B) in a clean container and slowly add the cementitious mortar (Component A), 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. Apply the product on well soaked surfaces. Apply using an emulsion brush or the 22cm STYLING ROLLER of DUROSTICK. 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 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 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 container pallet
32kg set (22,4kg mortar + 9,6kg resin)

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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	White
■ Bulk density of dry mortar	1.10±0.05kg/l	
■ Density		1.00±0.05kg/l
■ 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	Approximately 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	
Abrasion resistance per EN 2409	Weight loss < 3000mg
Permeability S_D to CO ₂ per EN 1062-6 (method A)	$S_D > 50$ m
Water vapour permeability S_D per EN ISO 7783-2	$S_D = 0.50$ m (class I, water vapour permeable)
Capillary water absorption w per EN 1062-3	$w = 0.04$ kg/m ² ·h ^{0.5}
Impact resistance per EN ISO 6272-1	45Nm (class III)
Adhesion strength per EN 1542	≥ 0.80 N/mm ² (flexible system)
Reaction to fire	Class F

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