

No39



Elastomeric waterproofer for flat roofs



PROPERTIES

Acrylic, elastomeric and solvent-free waterproofing product for roofs. It creates a uniform, impervious to water membrane, without seams nor joints. It perfectly covers hairline and micro cracks, while it prevents their reappearance. It maintains its flexibility at temperatures ranging from -20°C to +80°C. It does not allow for the creation of moisture related problems due to any future expansion and contraction of the coated surfaces. Certified by the University of Athens (Department of Physics, Division of Applied Physics), as 'Cool' material of low thermal conductivity and high reflectivity. Its brilliant white color significantly reduces the heat absorption from the roof slab and improves its energy efficiency. Classified as product for surface protection of concrete surfaces per EN 1504-2.

APPLICATIONS

DUROSTICK No39 easily applies on terraces and roofs to be lined with clay roof tiles. It is also suitable for corners, edges and lead lined roof valleys. Great for spot crack sealing.

USE

1. New surface preparation

Using a stiff broom and water, thoroughly clean any loose sections, dust and mud. Remove all black spots (mold/mildew) using DUROSTICK D-95 CLEANER or a bleach - water solution, at a dilution ratio of 1:1. Follow by rinsing thoroughly with plenty of water. Surfaces to be waterproofed must be dry and should not get wet for the next 24 hours, in order to avoid surface moisture from being trapped.

2. Existing surface preparation

- Detached torch-down roofing: Remove them using a wide roofing scraper and roofing torch or other mechanical means.
- Well adhered existing torch-down roofing material, only require a first coat of No39, diluted 5% with water and a second, crosswise coat undiluted to complete the waterproofing.
- Remove detached or deteriorated elastomeric waterproofer, using a wide roofing scraper or other mechanical means.

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- Detached elastomeric materials that are not visible, can be found 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 sections of the waterproofing and mark them. Cut the detached sections using a razor blade and scrape the defective material off.

3. Application

Using a roller, first apply the micromolar stabilizer, AQUAFIX undiluted, or the SOLVENT BASED PRIMER, diluted 30% with THINNER 101 of DUROSTICK. Alternatively, dilute No39 with water, at a ratio of 1:1 and use it as a primer, assuming that the roof does not have any deteriorated sections. Once the priming product dries, locate any possible hairline cracks (0.1-0.4mm width). Individually coat each crack with one-two layers, to seal them completely using the product undiluted.

If the width of the cracks is between 0.5-1mm, it is recommended to seal them using the DUROSTICK ACRYLIC CAULK or the elastomeric sealant, DS POLYMER of DUROSTICK, using a putty knife. Continue by applying two coats of undiluted No39 over the cracks to complete their sealing. Complete the surface waterproofing by applying two undiluted coats over the entire area using DUROSTICK No39. Apply the second coat crosswise to cover any minor substrate imperfections, once the first one is completely dry and walkable.

ATTENTION: Avoid the application of the waterproofer when there is a possibility of rain within the next 24 hours.

NOTES

- Mix well before use
- After drying, the product is harmless to human and the environment

CLEANING

Clean all tools with water (and soap or detergent if necessary), immediately after use.

CONSUMPTION

1.0-1.5kg/m² for two coats, depending on the substrate.

STORAGE

Store in places protected from frost for a minimum of 24 months after production date.

SAFETY DIRECTIONS

The product needs no hazard labeling under current European and national legislation. However, it is recommended to keep away from the reach of children. If swallowed, seek medical advice immediately and show the container or label.

PACKAGING

- Carton box with 12pcs of 1 kg each one
- 5kg container (on a 120pcs pallet)
- 15kg container (on a 48pcs pallet)

TECHNICAL SPECIFICATIONS

Color	White, brick red
Density	1.45±0.05kg/lt
Elongation at break, (per ASTM D 412)	After 8 days of curing and at 1mm thick membrane, the elongation at break was determined at 300%
Full tightness	7 Atm per DIN 1048
Capillary water absorption	0.01kg/m ² .h ^{0.5} (EN 1062-3, requirement EN 1504-2: w <0,1)
Permeability s_D to CO₂, per EN 1062-6	s _D > 50m
Water vapour permeability s_D per EN ISO 7783-2	s _D = 1.17m (water vapour class I, s _D <5m)
Adhesion to concrete per EN 1542	1.0 N/mm ² (requirement for flexible systems without circulation: 0.8 N/mm ²)
Impact resistance per EN ISO 6272-1	10Nm (class II)
Application temperature	From +8°C to +30°C
Temperature resistance	From -20°C to +80°C
Friendly to human and the environment	

Laboratory testing by the Ministry of Environment & Buildings (KED E 1580/243).

V.O.C. (Volatile Organic Compounds):

Limit value of maximum V.O.C. content according to EC (Directive 2004/42/EC) for the particular product (category A/c: 'Coatings for exterior walls of mineral substrate', type WB): 40gr/lt (2010). Ready to use product contains maximum 35 gr/lt V.O.C.

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