

# ELASTOROOF

## TECHNICAL DATA SHEET



### Description of the product

**ELASTOROOF** is a **heat reflective elastomeric waterproofing** acrylic paint. It is used on horizontal and inclining surfaces (e.g. terraces) and presents excellent adhesion on cement, render, roof plates, bricks, wood, bitumen, etc. It is characterized as a **cool paint** and has high solar reflectance and emittance. The solar radiation is reflected by **ELASTOROOF** and thus, less energy for adjusting the interior temperature of the building is required and CO<sub>2</sub> emissions are reduced.

It forms an elastic and impermeable film and retains its elasticity even at very low temperatures. **ELASTOROOF** has excellent resistance to adverse weather conditions (sunshine, rain and snow).

### Recommended uses

It is applied on exterior horizontal and inclining surfaces, e.g. roofs.

### Technical characteristics

**Resin:** Acrylic resin

**Density:** 1.35±0.04 gr/ml

(EN ISO 2811.01, 20°C)

**Production Viscosity:** 103±5 KU

(ASTM D 562, 25°C)

**Storage Viscosity:** 108±5 KU

(ASTM D 562, 25°C)

**Solids b.w.:** 60±2%

(EN ISO 3251)

**Solids b.v.:** 48±4%

(ISO 3233)

**pH:** 8.4±1

(ISO 976)

**Packaging stability:** 10/10 (1 month, 50°C)

(ASTM D 1849)

**Freeze-thaw stability (-5°C):** OK

(ELOT 777)

**Minimum Film Forming Temperature:** 5°C

(ASTM D 2354)

**VOC (Volatile Organic Compounds):** **ELASTOROOF** belongs to the category A/c WB (Exterior walls of mineral substrate). EU Limit Value: 40 g/l. The ready to use product contains max. 35 g/l.

### Shades

Available in white and in 2 ready-made shades.

### Properties

**Elasticity:** 23°C: 178%

60°C: 112%

-10°C: 199%

(AFNOR P84-402 § 3.7)

**Crack bridging (-10°C):** Covers hair cracks up to 750 µm ( Class A3)

(DIN EN 1062.07)

**Crack bridging (23°C):** Covers hair cracks up to 320 µm

**Solar Reflectance (SR):** 0.83

(ASTM E903)

**Emittance (ε):** 0.89

(ASTM E408)

**Solar Reflectance Index (SRI):** 103

(ASTM E1980)

**Water Vapour Transmission Rate permeability (S<sub>p</sub>):**

0.58±0.06 m (Class II)

(ISO 7783.02)

**Liquid Water Permeability (w):** 0.02(Kg/m<sup>2</sup>h<sup>0.5</sup>) (Class III)

(DIN EN 1062.3)

**Whiteness index:** ≥ 75

(ASTM E 313)

**Yellowing index:** ≤ 4.5

(ASTM E 313)

**Gloss 85°:** 5±2

(EN ISO 2813)

**Recoatibility:** No change is noted on the film

(ELOT 788 § 5.4)

**Resistance to liquids (NaOH 5% b.w.):** No change is noted on the film

(EN ISO 2812.01)

**Bend test (Mandrel):** 2 mm OK

(EN ISO 1519)

### Spreading rate

**Recommended Total Dry Film Thickness:** 200 µm.

**Spreading rate:** Approximately 2±1m<sup>2</sup>/Lt overall (priming+2 coats without thinning).

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### Application instructions

Surfaces are cleaned from dust and flaking parts are removed. Surfaces are primed with **ELASTOROOF** thinned with water up to 30%. The following 2 coats should be applied crosswise, without thinning, with an interval of 24 hours between coats in summer and 72 hours in winter.

**Application method:** Roller, brush, airless spray.

**Diluent:** Water.

**Thinning:** When the product is used for priming dilute up to 30% v/v. No thinning is necessary for the following 2 coats.

Tools are cleaned immediately after the application with soap and water.

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### Drying time

**Dry Through:** 3±1 hours (ASTM D 1640).

**Recoating time:** 24 hours in the summer and up to 72 hours in winter.

Drying and recoating time may be prolonged under conditions of low temperature and high relative humidity.

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### Packaging

The white shade is available in 0.75 Lt, 3 Lt and 10 Lt cans.

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### Storage

1 year, provided the cans remain closed and in normal storing conditions. ELASTOROOF can be stored after opening if the can is kept properly sealed in a cool sheltered place at temperatures 5-30°C.

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### Health and safety

Please refer to the labeling mentioned on the can. In case more information is needed refer to the Material Safety Data Sheet.

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### Notes

- It is recommended to avoid the application of the product at temperatures below 5°C or when there is the possibility of rain in the next 24 hours.
- On surfaces with abrasive residues or surfaces coated with lime, we recommend the application of 1 coat of **PRIMEX A-1300** thinned up to 100% with CHROTEX BRUSH SOLVENT and then two coats of **ELASTOROOF**.
- The optical properties of **ELASTOROOF** were measured from the Physics Dept of the University of Athens. Elasticity, crack bridging, water permeability were measured at the Institut für Lacke und Farben (ILF) and Forschungsinstitut für Pigmente und Lacke (FPL).

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