

## 3151 ELASTICOOL Waterproofing Material

### Description

Acrylic dispersion based, one component, liquid plastic coating and waterproofing material which is highly elastic, and saves energy by reflecting radiant heat energy on surface of roofs.

### Fields of Application

- Waterproofing of the all types of flat or sloped roofs and terraces covered with concrete, plaster, asbestos cement, galvanized steel, zinc, aluminum, PVC, polyester, wood.
- Exterior waterproofing of buildings.
- Surfaces of concrete, plaster, stone, clinker, decorative coatings etc.
- Old bitumen, bituminous membrane or asphalt covered surfaces.
- On spray polyurethane foam.
- Waterproofing and energy saving material.

### Properties

- Ready to use, easily applicable with brush and roller by airless spray method.
- Low labor cost.
- 400% elastic.
- Water vapor permeable.
- Highly resistant to UV rays.
- High UV (radial heat) reflectivity.
- Reducing the surface temperature of the building retains more heat and reduces the temperature within the building.
- Saves energy by reducing the need of electric energy used for cooling.
- Strong adhesion to hard surfaces.
- Remains flexibility at low temperature.
- Hard to get dirty.
- Suitable for pedestrian traffic.
- Resistant to extreme weather conditions and aging.
- Resistant to stagnant water.

### Application

- The substrate must be solid, dry, free of dust, loose parts, paint, wax, oils, rust and traces of gypsum.
- Cementitious substrates must be cured.
- Use a TAMIRART in case of any loose and uneven substrates to get a sound and flat surface. Very thin cracks can be repaired with ELASTICOOL by sweeping with brush or stripping with a trowel method.
- Before application ELASTICOOL, surface should be primed with KALEKİM ASTAR.
- Apply on to the surface in two or preferably three coats with brush or roller after mixing. Total thickness of application should be 1.0-1.5 mm.
- Surfaces carrying in risk of cracking, (especially heavily used roof surfaces) the thickness should be min 2mm.
- 2nd layer should be done after the first coat is completely dry.
- Waiting time between the applications of two layers is about 4 hours. It may be rised up to 24 hours depending on the temperature and relative humidity conditions.
- Additives which are not recommended in data sheet should not be used.
- Pail should be closed while waiting. Freezing should be avoided.
- For strengthening wide surfaces and crack bridging, ELASTICOOL should be applied with special waterproofing mesh. The joints such as parapet corners, skylight and base part of chimneys; the usage of waterproofing tape or the application of the product combined with special waterproofing net is recommended. This application should follow priming.

## 3151 ELASTICOOOL Waterproofing Material

- Do not apply in extremely hot and highly windy weather conditions under direct sunlight and when fog, rain or frost is expected. Lower temperatures and higher relative humidity may elongate the drying time.
- Surface should not subjected to heavy load traffic.

Technical Properties (at 23°C and 50% RH)	
<b>General Data:</b>	
Appearance	White liquid
Shelf life	24 months when stored in the original sealed packaging
<b>Application Data:</b>	
Application Temperature Range	(+5°C) - (+35°C)
Waiting Time Between the Coats	4-8 hours
Ready to Use	3-7 days
Consumption	~1,5 kg/m <sup>2</sup> (for 1 mm thickness)
Application (vertical)	2 layers / Thickness: 0.75 - 1.00 mm
Application (horizontal)	3 layers / Thickness: 1.00 - 2.00 mm
<b>Performance Data:</b>	
Waterproofing	≥ 1 bar / 24 hour
Tensile Strength (EN 1542)	≥0,8 N/mm <sup>2</sup>
Tensile Adhesion Strength After Cycling Without De-icing Salts Immersion (EN 13687-3/ EN 1542)	≥0,8 N/mm <sup>2</sup>
Tensile Adhesion Strength After Heat Ageing (EN 1062-11/EN 1542)	≥0,8 N/mm <sup>2</sup>
Resistance to Accelerated Ageing (EN 1062-11): After 2000 hours UV radiation and humidity; No blistering /cracking /flaking	No visible change.
Crack Bridging (EN 1062-7) (21 °C)	≥2,5 mm
Elongation of rupture	≥%400
Permeability to Water-vapor (EN ISO 7783-2)	Class I ; Sd <5 (Sd: Equivalent air thickness)
Carbondioxide Permeability (EN 1062-6)	Sd >50 m (Sd: Equivalent air thickness)
Chloride Diffusion (ASTM C1202)	≤ 200 Coulomb (Class: Very low permeability)
Capillary Water Absorption (EN ISO 1062-3)	<0,1 kg/m <sup>2</sup> h <sup>0,5</sup>
Service Temperature Range	(-30°C) - (+80°C)
Dangerous Substances	See SDS.
Reaction to Fire	European classification Ds1d0

### Warnings

>Further information refer to safety data sheet.

### Storage

- Store in temperatures from +5°C to +35°C in original sealed packing.

### Packaging

- 20 kg. plastic pails.

**3151 ELASTICOOOL** Waterproofing Material**Environmentally  
Friendly****Quality Certificates**

Conforms EN 1504-2.

Please Note: All suggestions and application instructions herein are based on our latest technical experience. Due to wide variety of individual application conditions, the user alone is responsible for any consequences deriving from the use of the product.

