



Description

One component, highly elastic, liquid plastic coating and waterproofing material which is formulated with high technology polymerization for waterproofing of roof surfaces and providing energy saving by reflecting radiant heat energy.

Fields of Application

- Waterproofing of all types of flat or sloped roofs and terraces covered with concrete, plaster, asbestos cement, galvanized steel, zinc, aluminum, PVC, polyester and 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.
- Used as waterproofing and energy saving material.

Properties

- High UV (radial heat) reflectivity.
- Reduces the surface temperature of the building by retaining more heat and thus reduces the temperature within the building.
- Saves energy by reducing the need of electricity used for cooling.
- Highly resistant to UV rays.
- 400% flexible after curing.
- Remains flexibility at low temperatures
- Strong adhesion to compelling surfaces.
- Resistant to extreme weather conditions and aging.
- Water vapor permeable.
- Forms a one-piece, no-joint, continuous waterproofing layer.
- Low labor cost.
- Ready to use, easily applicable with brush and roller or by airless spray method.

Preparation of Substrates

- The substrates must be dry, clean and solid.
- The substrate must be free of dust, loose parts, paint, wax, oils, rust and traces of gypsum.
- The sub-surfaces that are not strong enough to carry themselves consisting of e.g. cracked plasters, weak surfaces, or residues of moss should be removed.
- The application surface should not be moist.
- Use Tamirart series repair mortars in case of any loose and uneven substrates to get a sound and flat surface.
- Corners should be rounded with Tamirart S40.
- In cases where one could not round the corners with structural repair mortar, it is recommended to select the most suitable type of Kalekim Waterproofing Tape at the joints such as horizontal - vertical joints, parapet corners, luminaires, chimney bottoms. This step should be applied after the first layer of Elasticool application.
- Before application the surface should be primed with Kalekim Astar (Primer) depending on the absorbency of the substrate.

Application

- Should be applied in two coats on vertical surfaces and three coats on horizontal surfaces with a brush or roller after mixing with a low-speed mixer. Total thickness of application should be 1.0-1.5 mm.
- Surfaces carrying risk of cracking (especially heavily used roof surfaces), the thickness should be minimum 2 mm.
- The 2nd layer should be done after the first coat is completely dry.
- Waiting time between the applications of two layers is about 4-8 hours. This period may be up to 24 hours depending on the temperature and relative humidity conditions.



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Post-Application Protection & Suggestions

- Elasticool is a ready to use product. Please do not add any additives except those recommended in the data sheet.
- The product should be used within the shelf life. Products with expired shelf life must not be used.
- While covering Elasticool applied surface, the waterproofing material should not be damaged by mechanical effects and it should be protected during the curing.
- Fresh applied surfaces should be protected against direct sunlight, strong airflow, high air temperature (over + 35°C), rain and frost during the first days.
- Keep packaging closed when application is interrupted. The product should be protected from freezing.
- Elasticool should be applied with a special fiber mesh when reinforcing wide open spaces and bridging cracks. It is recommended to use Kalekim Waterproofing Tape or a special fiber mesh at joints such as parapet corners, chimney flashings. This process should be done after primer.
- It should not be applied at very high temperatures, under direct sunlight, in extremely windy, foggy, rainy, frost-risk weather conditions. Low temperature and high relative humidity can extend the drying time.
- It should not be applied in rainy weather and the applied surface should be protected from rain within 24 hours of application.
- It should not be applied against negative water pressure.
- Surface should not be exposed to heavy traffic.
- Surface and ambient temperature should be at between + 5 °C and + 30 °C during application.
- Avoid ponding of water.
- Consumption values in the technical table refers to an average consumption amount. It may vary depending on the application conditions and surface properties.
- For further information refer to the safety data sheet.

Storage

- Packages should be kept dry and cool at between +5°C and +35°C in damp free conditions avoiding direct sunlight.
- Packages should be protected from water, frost and adverse weather conditions.
- Maximum 3 buckets should be stacked on each other.
- Shelf life is maximum 24 months conditional to complying with the above mentioned storage conditions.

Packaging

- 20 kg plastic pails.



Environmentally
Friendly

Quality Certificates

EN 1504-2 Class PI, MC, IR-C



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Technical Properties

(at 23°C and 50% RH)

General Data

Appearance	White liquid
Shelf Life	24 months when stored in the original sealed packaging.

Application Data

Application Temperature Range	(+5°C) – (+35°C)
Waiting Time Between Coats	4 - 8 hours
Ready to Use	3 - 7 days
Consumption	~1.5 kg/m ² (for 1 mm thickness)
Application (vertical)	2 layers / Thickness: 0.75 - 1.00 mm
Application (horizontal)	3 layers / Thickness: 1.00 - 2.00 mm

Performance Data

Impermeability to Water	≥ 1 bar / 24 hour
Tensile Strength (EN 1542)	≥0.8 N/mm ²
Tensile Adhesion Strength After Cycling Without De-icing Salts Immersion (EN 13687-3/ EN 1542)	≥0.8 N/mm ²
Tensile Adhesion Strength After Heat Ageing (EN 1062-11/EN 1542)	≥0.8 N/mm ²
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/-10 °C)	≥ 2.5 mm (A5) / ≥ 2.5 mm (A5)
Solar Reflectance Index	105 %
Permeability to Water-Vapor (EN ISO 7783-2)	Class I ; Sd <5 (Sd: Equivalent air thickness)
Carbon Dioxide Permeability (EN 1062-6)	Sd >50 m (Sd: Equivalent air thickness)
Capillary Water Absorption (EN ISO 1062-3)	<0.1 kg/m ² h ^{0.5}
Service Temperature Range	(-30°C) - (+80°C)
Dangerous Substances	See SDS.
Reactipon to Fire	European classification Cs1d0

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

Bu mesaj/doküman HİZMETE ÖZEL etiketi ile sınıflandırılmıştır.