



## MONOSTOP THERMO ROOF

Energy - elastomeric hybrid membrane for roof sealing.



23.10.2019 v03

Packing: 0.75lt | 3lt | 10lt

### Description

Energy - elastomeric hybrid membrane for roof sealing. Based on new technology acrylic and polyurethane resins. It has excellent adhesion on well prepared surfaces and follows their contractions and expansions. Characterized by the National Kapodistrian University as cool material, it has high heat reflectivity, contributing to the thermal comfort and saving energy resources. Contains special additives that prevent the growth of microorganisms on the film. It retains high strength at stagnant water.

### Purpose of Use

Ideal for the ultimate water insulation and waterproofing of surfaces such as roofs, joints, etc. Can also be used on wood, metal and cementitious building surfaces after their proper preparation.

### Product Characteristics

- Cool material (High solar reflectance and high infrared emittance).
- High resistance to stagnant waters.
- Single sealing film without joints.
- Protection of the building blocks.
- Easy local maintenance - repair.
- High resistance to external weather conditions.
- Long life time.
- Excellent elasticity.
- CE Marking, according to EN 1504-2:2004

### Shades

Available in white.

### Coverage

2,5-3,5m<sup>2</sup> /lt.

## Recommended Painting Systems

### ***New surfaces with low absorptivity***

	<b>Product</b>	<b>coating</b>
<b>Primer</b>	MONOSTOP THERMO ROOF	1 coat thinned 30- 40% by volume with water.
<b>Final coating</b>	MONOSTOP THERMO ROOF	2 Coats, the first thinned up to 15% by volume with water and the second up to 5% by volume with water, applied crosswise.

### ***New surfaces with high absorptivity***

	<b>Product</b>	<b>coating</b>
<b>Primer</b>	FIXATEUR or NATURE AQUAFIX	1 Coat
<b>Final coating</b>	MONOSTOP THERMO ROOF	2 Coats, the first thinned up to 10 % by volume with water and the second up to 5% by volume with water, applied crosswise

### ***Old Surfaces***

	<b>product</b>	<b>coating</b>
<b>Primer</b>	FIXATEUR or NATURE AQUAFIX	1 Coat
<b>Final coating</b>	MONOSTOP THERMO ROOF	2 Coats, the first thinned up to 10% by volume with water and the second up to 5% by volume with water, applied crosswise.

### **Application conditions**

Apply at temperature from 15°C to 35°C and relative humidity up to 75%.

### **Application Instructions**

Applied by brush or roller, at temperature from 15°C to 35°C and relative humidity up to 75%. Do not apply on wet surfaces or if there is a possibility of rain within 72 hours. Temperature and humidity conditions should be normal during application and during curing of the material

### **Surface preparation**

Surfaces should be dry and free from loose and foreign materials. In old surfaces thoroughly clean from foreign material (asphalt, mold, dust, cement coatings, loose materials). If the old surface has a coating of several years or polyurethane coating should be preceded by sanding with sandpaper and stabilization control. If substrate carrying asphalt or bitumen with chippings or without, priming is necessary. A test with Fixateur primer thinned 50% v/v with white spirit is recommended. If the primer does not attack the asphalt surface, then continue with it. Otherwise, apply MONOSTOP THERMO ROOF thinned 30-40% with water, followed by the application of MONOSTOP THERMOROOF.

## Technical characteristics

<b>Specific Gravity</b>	1,30 ± 0,03 (ISO 2811).
<b>Viscosity</b>	>135 K.U., 25°C (ASTM D562).
<b>pH</b>	8,2 ± 0,35.
<b>Coverage</b>	2,5 - 3,5 m <sup>2</sup> /lt depending on the type of the surface and the application method.
<b>Elongation</b>	> 300% (SCIENTIFIC RESEARCH CENTER DEMOKRITOS, ASTM D2370).
<b>Tensile Strength</b>	2,5 MPa (SCIENTIFIC RESEARCH CENTER DEMOKRITOS, ASTM D2370).
<b>Stiffness</b>	10,3 MPa (SCIENTIFIC RESEARCH CENTER DEMOKRITOS ASTM D2370).
<b>Resistance to fire</b>	Class E (EN ISO 11 925-2).
<b>Reflectivity to Solar Radiation- SR (Solar Reflection)</b>	87% (NATIONAL KAPODISTRIAN UNIVERSITY OF ATHENS ASTM E 903-96, ASTM G 159-98).
<b>Infrared Emittance (ε, Thermal Emittance)</b>	0,83 (NATIONAL KAPODISTRIAN UNIVERSITY OF ATHENS ASTM E 408-71).
<b>Solar Reflection Index (SRI)</b>	109
<b>Capillary absorption and water permeability</b>	< 0,01 Kg/ m · h (EN 1062-3)
<b>Thunder-shower cycling (thermal shock)</b>	>0,8 N/mm (EN 13687-2)
<b>Thermal cycling without de-icing salt impact</b>	>0,8 N/mm (EN 13687-3)
<b>Adhesion (bond strenght)</b>	>0,8 N/mm (EN 1542)
<b>Crack bridging ability</b>	A1 (>100μm) (EN 1062-7)
<b>Drying</b>	Touch dry 2-4 hours, depending on weather conditions. Through dry after at least 48 hours (These times may be elongated depending on temperature and humidity conditions).
<b>Recoating</b>	After 12 hours depending on weather conditions. (These times may be elongated depending on temperature and humidity conditions).
<b>Final cure</b>	The product acquires its final properties in 7 days after the final coating and in normal conditions of temperature and humidity.
<b>Solvent</b>	Water.
<b>Thinning</b>	Thinned with water at a percentage 10-15% by volume.

## Special Instructions

MONOSTOP THERMO ROOF is a protective product. Its efficacy as well as its service life and operation, as well as all protection systems, depend directly on the preparation and the quality of the substrate, the correct application and the total thickness of the coating. Laboratory measurements of the product have been carried out on smooth, properly prepared, stabilized surfaces. If the surfaces are very rough and roughness cannot be reduced mechanically, then the amount of material to be coated must be differentiated, and consumption will also increase. Also, if the surfaces have high absorbency, it should be reduced with the appropriate primer in 1 or more coatings. If a mesh is to be used, then one more coating is necessary. Any cracks and other abnormalities on the surface must first be repaired before applying the product. If for some of the above reasons we must apply larger quantity of material, it should be done with more coatings and not with the same number of coatings and with higher amounts of the material. Each coating should be left to dry properly before the next one is followed. The product has a high resistance to stagnant water but prolonged immersion in water can cause problems.

## According to 2004/42/EC

Phase II, Subcategory c, exterior walls of mineral substrate, V.O.C content limit value = 40gr/lit, Maximum V.O.C. Content = 40gr/lit (thinned, ready to use), Thinning: up to 15% by volume with water.

## Storage

Keep cans air - tight sealed and protect from frost. For long - term storage the product is best kept indoors in order to avoid its exposure to very low or very high temperatures as well as high humidity conditions. Store away from food, drinks and animal food stuff. Keep out of reach of children. After opening the can use the product in a short time.

## Instructions precautions - Prevent environmental impact

Keep out of the reach of children. Wear protective goggles and gloves. Do not drink, eat or smoke while using the product. Wash hands thoroughly after work. Do not discard paint remnants in the drainage or aquifer. Empty containers and paint remnants must be disposed of in accordance with applicable laws and local regulations.

For more information, please refer to the Material Safety Data Sheet.

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*All the above information is based on laboratory tests and long-term experience of the company's scientific personnel. Product quality is guaranteed by our operational system, which is based on the requirements of ISO 9001, ISO 14001 and OHSAS 18001 Standards and EMAS Regulation. As producers we don't take any responsibility for any damage that may be caused in cases that the product hasn't been used for the appropriate application and according to the application instructions.*

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