

MONOSTOP THERMO ROOF

Energy - elastomeric hybrid membrane for roof sealing.

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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.



Stir well before use



Coverage:
2,5 - 3,5 m² /lt



Drying time:
Between 2 to 4 hrs



Thinning
with water at a percentage of 10-15% by volume



Paint:
Roller



Paint:
Brush

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 lifetime.
- Excellent elasticity.
- CE Marking, according to EN 1504-2:2004 714-02)

Shades

Available in White.

Packaging:

0,75lt
3lt
10lt



The above information is based on laboratory audits and the long experience of the scientific staff of the company. The quality of the product is guaranteed by the company's operating system which is based on the requirements of ISO 9001, ISO 45001, ISO 14001 and the EMAS regulation. As producers we are not responsible for any damage or damage caused in the event that the product has not been used for the appropriate application and in accordance with its instructions for use.

Technical Specifications



V.O.C	40gr/lit (Maximum Volatile Organic Compounds content ready for use).
Density	1,30 ± 0,03gr /cm ³ (ISO 2811) (for white).
Viscosity	>130 K.U., 25°C (ASTM D562).
pH	7,8-8,8.
Performance	2,5 - 3,5 m ² /lit depending on the type of the surface and the application method.
Gloss	<4 units at an angle 60°.
Thinning	Thin with water at a percentage of 10-15% by volume, depending on the application method.
Application	The product is applied by brush or roller.
Final cure	The product acquires its final properties in 7 days after the final coating and in normal conditions of temperature and humidity.
Drying	Touch dry 2-4hrs, depending on the weather conditions. (The drying time might be elongated according to temperature and humidity conditions)
Recoating	Repaint after 12 hrs, depending on weather conditions.
Elongation	> 300% (N.C.S.R "Demokritos"-ASTM D2370).
Tensile Strength	2,5 MPa (N.C.S.R "Demokritos"-ASTM D2370).
Stiffness	10,3 MPa (N.C.S.R "Demokritos"-ASTM D2370).
Resistance to fire	Class E (EN ISO 11 925-2).
Reflectivity to Solar Radiation-SR (Solar Reflection)	87% (NKUA Athens-ASTM E 903-96, ASTM G 159-98).
Infrared Emittance	0,83 (NKUA Athens-ASTM E 408-71).
(ε, Thermal Emittance)	
Solar Reflection Index (SRI)	109
Capillary absorption and water permeability	< 0,01 Kg/ m · h (EN 1062-3)
Thunder-shower cycling (thermal shock)	>0,8 N/mm (EN 13687-2)
Thermal cycling without de-icing salt impact	>0,8 N/mm (EN 13687-3)
Adhesion (bond strength)	>0,8 N/mm (EN 1542)

ACCORDING TO 2004/42/EK

PHASE II, PHASE II, Subcategory c, Exterior walls and mineral substrate, Value limit V.O.C.= 40gr/lit, max VOC.=40gr/lit (ready to use product).



Storage

Storage indoors to avoid exposure to high or low surfaces and high humidity conditions. Avoid sources of heat, radiation, static electricity, and storage near food. Keep container tightly closed. After opening can use product in a short period of time. Close the can well.



Safety Instructions- Prevention of environmental harming

Minimize paint wastage by estimating how much paint you will need. Recover unused paint for reuse. Reuse of paint can effectively minimize the products life cycle environmental impact. Clean tools with water and soap. Do not put residual paint down the kitchen sink or toilet or into a waste bin. Empty cans with paint residues should be handled the same way and disposed according to local Regulations. You should ask for advice for the local government section responsible for the collection and disposal of waste. Ask for advice from an authorized body for waste recovery. Wear protective gloves and goggles/ Do not eat, drink when handling the product. Wash wand with suitable cleaning products. Keep out of reach of children. Always read the can label before use.

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Recommended application systems

Exterior Surfaces

- **New surfaces with low absorptivity**

Preparation

The surfaces to be painted should be dry and clean of any dust, grease, salt and old peeled paints. Any holes, cracks or unevenness of the wall should be puttied with Acrylic Putty or Berling Stucco Grid, following their application instructions.

STUCO GRID

2 coats

Primer

Apply Monostop Thermo Roof thinned 30- 40% by volume with water.

MONOSTOP THERMO ROOF

1 coat

Final coating

Apply the first coat of Monostop thermo roof thinned up to 15 and the second up to 5% by volume with water, applied crosswise.

MONOSTOP THERMO ROOF

2 coats

- **New surfaces with high absorptivity**

Preparation

The surfaces to be painted should be dry and clean of any dust, grease, salt and old peeled paints. Any holes, cracks or unevenness of the wall should be puttied with Acrylic Putty or Berling Stucco Grid, following their application instructions.

STUCO GRID

2 coats

Primer

Prime with solvent-based primer Fixateur or water based primer Nature Aquafix, following their application instructions.

FIXATEUR or NATURE AQUAFIX

1 coat

Final coating

Apply two coats of Monostop thermo roof crosswise, with the first thinned up to 10 % and the second up to 5%, by volume with water.

MONOSTOP THERMO ROOF

2 coats

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Recommended application systems

- **Old surfaces**

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.

Primer

Prime with solvent-based primer Fixateur or water-based primer Nature Aquafix, following their application instructions.

**FIXATEUR or NATURE
AQUAFIX**
1 coat

Final coating

Apply two coats of Monostop thermo roof crosswise, with the first thinned up to 15 % and the second up to 5%, by volume with water.

MONOSTOP THERMO ROOF
2 coats

- **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.

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