



we know how
since 1962

WATERPROOFING COATINGS BITUMINOUS EMULSIONS

ESHALUMIN

Heat-reflective & waterproofing
aluminium paint



GENERAL DESCRIPTION

EshaLumin is a bitumen based aluminium paint designed for the protection of exposed bituminous surfaces and the anti-corrosive protection of metal surfaces. It consists of bitumen, solvents, aluminium pigments and various additives. When applied the aluminium pigments lie flat to form a highly reflective aluminium surface, ideal for reducing solar pick-up on black roofs, tanks and similar surfaces.

STORAGE

At least for one year in sealed containers. Store in dry environment. Do not expose to heat sources.

PACKING

In pails of 4,5lt and 18lt

USES

A. Protection of new and old bituminous layers:

- Protection of new and old bituminous coatings.
- Protection of new bituminous membranes with upper surface quartz sand or PP thin layer. **EshaLumin** is not applied on a bituminous membrane with upper surface polyethylene as it does not adhere to polyethylene.
- Protection of old bituminous membranes with upper surface mineral chippings or aluminium foil. If there are areas where the aluminum foil has been damaged, it should be taken away and these areas should be coated with an additional layer of **EshaLumin**.

CHARACTERISTICS/ADVANTAGES

- Protection of new and old bituminous layers
- Protection of metal surfaces:
- Excellent reduction in solar heat absorption

Alfa-Alfa Energy S.A.

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B. Protection of metal surfaces:

- metal roofs
- piping
- tanks

Attention: The material should only be used in open spaces or in areas with optimum ventilation.

EshaLumin is compatible with concrete, light weight concrete, brick, stones, metal, plasterboard, asbestos-cement and polyurethane.

It is not compatible with polystyrene due to its organic solvents content.

APPLICATION PROCEDURE

SURFACE PREPARATION

1. Surfaces should be regular, completely dry, dust free, clean from rust, foreign matter and loose materials. Greases and oils should also be removed.
2. Absorbent surfaces such as concrete or timber should first be primed with EshaLac 50S (bituminous primer) and allowed to dry before applying **EshaLumin**.
3. Previously corroded metal surfaces require special attention. They should first be cleaned, any remaining rust areas should be suitably stabilized and they should then be primed with EshaLac 50 S before applying **EshaLumin** over the dry surface.
4. Bituminous varnishes should be ideally allowed to weather for 4-6 weeks in order to produce a suitably rough surface before applying **EshaLumin**.

APPLICATION

Before application, each container should be agitated for at least 3 minutes with a mechanical mixer in order to produce a homogenous solution. **EshaLumin** is cold applied by roller, brush, or spray gun in at least two layers. Each new layer is applied in

a criss-cross pattern with respect to the previous one, when the latter is dry, in order to avoid solvent vapour inclusion between the layers. For the same reason one thick layer should be avoided.

CLEANING OF TOOLS

Tools are cleaned with organic solvent

CONSUMPTION

For protection of bituminous surfaces consumption ranges between 0.15 - 0.20 lt/m² per layer, depending on the surface type and porosity.

For protection of metallic surfaces consumption ranges between 0.10 - 0.15 lt/m² per layer.



Today, Esha is the No. 1 producer of bituminous waterproofing membranes in Greece, while also offering more than 500 specialized products (emulsions and solutions for surface protection and waterproofing, joint sealing materials, acrylics, epoxies, polyurethanes, polysulfides, modified road asphalt (elastomers, plastomers, recycled tires), asphalt road emulsions, asphalt bridge waterproofing materials, polyurethane thermal insulation boards, etc.).



See the products
and their applications
on our new website
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PRECAUTIONS

Danger. Highly flammable liquid and vapour. In contact with water releases flammable gases which may ignite spontaneously. Causes skin irritation. Suspected of damaging the unborn child. May cause drowsiness or dizziness. Causes damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways. Harmful to aquatic life with long lasting effects. Keep out of reach of children. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not allow contact with water. Handle and store contents under inert gas. Protect from moisture. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Do NOT induce vomiting. Get medical advice/attention if you feel unwell. Store in a well-ventilated place. Keep cool. Dispose of contents/container in accordance with local/regional/national/international regulations. Contains toluene, Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%). European Emergency Tel.: 112

UFI: E630-Y0T3-700N-9QT4

For Professional Use Only

For more information please refer to the material's MSDS from Esha sales department and read carefully the product's plastic pail label.

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TECHNICAL CHARACTERISTICS

PROPERTIES	NOMINAL VALUES	TEST METHOD
Physical State	Viscous Liquid	Observation
Color	White	Observation
Density	1.45 ± 0.05 g/cm ³	EN ISO 2592
Non Volatile Matter (NVM)	> 60 %	EN ISO 3251
Bending test (Φ 2 mm, -10°C)	No cracks	BS 2000-223
Tensile strength film 2 mm	> 20 N	EN 1931
Elongation at break	> 400%	EOTA TR-006
Water permeability 3 atm, 24 h	0 gr	EOTA TR-007
Resistance to ponding water after 7 days	No difference	EOTA TR-007
Reflectivity to sun	0.86	EN 13501-1
Emissivity to IR radiation (± 0.02)	107	EN 1187
Reflectivity indicator to sun radiation SRI	180	ASTM E 903-96
Uniformity after 72h at 23°C	No water separation or settlement after moderate stirring	ASTM D-2824
Consistency	Good application by spray, roller or brush above 10°C	ASTM D-2824
Cold bending flexibility	-5	DIN 52123
Gap bridging under pressure (0,5 bar, 8h, 3mm thick)	No Leakage	AIB 1.997 Annex III Column 5

Fluctuations in nominal values are in accordance with the relevant standards. The manufacturer reserves the right to modify the properties of its products. Esha provides information and, in particular, recommendations regarding the application and end use of its products based on its current knowledge and experience, when the products are stored, used, and applied under normal conditions. In practice, there are variations in substrates and local application conditions, so Esha cannot guarantee the success of the application of any material. It is recommended that the user test the application of the material under the local application conditions.