



# Esha ALUMIN

HEAT-REFLECTIVE & WATERPROOFING ALUMINIUM PAINT

- ✓ Unique protection of exposed bituminous and metal surfaces
- ✓ Excellent solar reflective barrier
- ✓ Long lasting light reflective properties
- ✓ Perfect adhesion

## 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.

*EshaLumin functions independently or as part of Esha DIY Kit waterproofing, protection & energy saving Kit for concrete surfaces. Esha DIY Kit contains bituminous waterproofing materials, accessories and application instructions in print and dvd.*



## USES

### A. Protection of new and old bituminous layers:

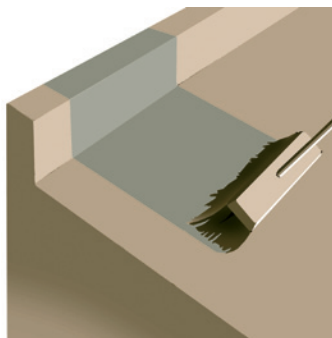
- Protection of new and old bituminous coatings.
- Protection of new bituminous membranes with upper surface quartz sand or PP thin layer. **EshaLumin** is not applied on a bituminous membrane with upper surface polyethylene as it does not adhere to polyethylene.
- Protection of old bituminous membranes 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**.

### 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.





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## INSTRUCTIONS FOR USE

### 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.

### CONSUMPTION

For protection of bituminous surfaces consumption ranges between 0.15 - 0.20 kg/m<sup>2</sup> per layer, depending on the surface type and porosity.

For protection of metallic surfaces consumption ranges between 0.10 - 0.15 kg/m<sup>2</sup> per layer.

### CLEANING OF TOOLS

Tools are cleaned with organic solvent.

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## TECHNICAL CHARACTERISTICS

When dry, **EshaLumin** forms a final film that is not affected by weak acid and alkali solutions, but is affected by mineral oils.

PROPERTIES	NOMINAL VALUE	TEST METHOD
PHYSICAL APPEARANCE	Low viscosity liquid	Observation
COLOR	Silver	Observation
DENSITY	0.95 ± 0.05 gr/cm <sup>3</sup>	ASTM D-1475
NON VOLATILE MATTER (NVM)	> 40 %	ASTM D-2824
Insoluble matter in trichlorethylene	< 40% of NVM	ASTM D-2824
Metallic aluminum	≥ 11 %	ASTM D-2824
Reflectivity to sun radiation SR (%)	69	ASTM E903-96
Emissivity to IR radiation e (± 0.02)	0.38	ASTM E408-71
Reflectivity indicator to sun radiation SRI	70	ASTM G159-98
Uniformity after 72h at 23° C	No solvent separation or settlement after moderate stirring	ASTM D-2824
Consistency	Good application by spray, roller or brush above 10° C	ASTM D-2824

Tolerances in the nominal values are in accordance with respective standards. Producer reserves the right to modify the properties of his products.

## PRECAUTIONS

- **EshaLumin** contains inflammable solvents. It must not be applied or kept near sources of heat and ignition. Vapour inhalation must be avoided. Ventilate well during application.
- Always wear suitable gloves and eye-face protection during use because it is irritating to eyes and skin. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- It should not be disposed to the ground but must be treated according to the relevant regulations.

For more information please ask the material's MSDS from Esha sales dept.

## PACKING

In pails of **3.5** and **17 kg**.

## STORAGE

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

Directions given on or in the packages or containers will always prevail.

The information contained in this leaflet is, to the best of our knowledge, true and reliable and is supported by the present state of our knowledge. According to the care taken and the method of application, upon which we have no influence, the values are subject to divergence. Therefore for best results, prior to use, an application test should be made by the user under his own processing conditions.

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