

# ECOSOLARIS

PROTECTIVE METALIZING WATER-BASED PAINT  
FOR BITUMINOUS WATERPROOFING  
AND GALVANIZED METAL SHEETS COVERING

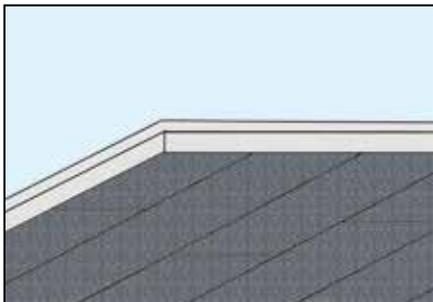


GRANTS *LEED* CREDITS

CHARACTERISTICS		ENVIRONMENTAL	METHOD OF USE				PRECAUTIONS
ONE-COMPONENT	WATER BASED	ECO GREEN	MIX MECHANICALLY	SPRAY APPLICATION	APPLY BY BRUSH	APPLY BY ROLLER	STORAGE: KEEP AWAY FROM FROST

## PROBLEM

**PROTECTING POLYMER-BITUMEN MEMBRANES FROM DETERIORATION CAUSED BY UV RAYS ECOLOGICALLY**



## SOLUTION

**ECOSOLARIS** is a product with base of aluminium pigments, emulsified resins, water and special additives.

It is bright silver and fluid in appearance. Once dry, it forms a film that reflects sunrays, favouring the thermal insulation of the painted zones. The film does not drip at high temperatures and is sufficiently elastic to follow the movements and expansions of bituminous membranes subjected to harsh thermal excursions.

## APPLICATION FIELDS

**ECOSOLARIS** can be applied on clean and dry surfaces in general. It is particularly suitable for protecting and decorating bituminous coverings. Furthermore, when applied onto slated membranes, it protects and fixes the grit onto the surface of the membranes, preventing detachment and increasing durability. It is a water based product and is consequently not hazardous for transport and does not require specific safety measures for operators.

## ADVANTAGES

- Free from solvents.
- Not hazardous for transport.
- High reflecting power.
- Good covering power.

## METHOD OF USE

### • SURFACE PREPARATION

The surfaces must be clean, dry and free from loose parts (1). On new membranes with talc and sand finish it is essential to apply the primer PREPAINT, as indicated in the relevant technical data sheet. PREPAINT is a fixing and insulating agent which enables unseasoned bitumen polymer membranes to be coated.

The surfaces must have a minimum gradient of 3% and, in any case, sufficient to allow regular draining of rainwater. **ECOSOLARIS** is not suitable on flat surfaces with prolonged water stagnation.

If **ECOSOLARIS** is applied on aluminium or galvanized metal sheet, a coat of JOINT DECK gripping primer should be used first, in order to improve the adhesion of the subsequent finishing product.

### • APPLICATION

**ECOSOLARIS** must be thoroughly mixed before use until the product is completely homogeneous and the sediment is dispersed (2). The presence of any residues in the bottom of the tin is not an indication of a damaged product, but the natural sedimentation of the pigment and the fillers. Incomplete dispersion of the pigment causes lower covering power.

**ECOSOLARIS** is ready to use and can be applied with a roller, paint brush, large brush or spray gun (3).

One coat is sufficient to completely cover and metallise the bitumen surface. Two coats are recommended in areas where greater protection and longer durability are required. **Apply the product in a single direction; cross-coat application or in different directions alters the "leafing" of the aluminium paste and therefore the appearance of the paint.**

The durability depends on the nature and condition of the waterproofing bitumen layer and is never the same as the life of the waterproofing. It also depends on the exposure and the pitch of the roof, the aggressiveness of the industrial atmosphere and the climatic areas, and the presence of insulating materials.

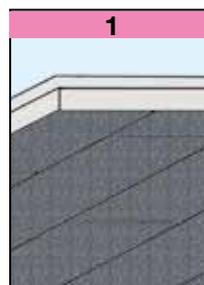
### • COVERAGE

The consumption of material varies according to the nature of the base, how porous it is and the finished thickness you wish to obtain. The consumption of **ECOSOLARIS** is approximately 100 – 150 g/m<sup>2</sup> per coat.

### • PRECAUTIONS

- Only apply on surfaces with good water drainage. Do not apply on surfaces subject to water stagnation.
- Do not apply on wet or damp surfaces.
- Do not use for tanks, cellars or channels subject to strong water backflow or pressurised water.
- Do not use on surfaces or containers where edible liquids and drinking water are kept or which may come into contact with solvents or mineral oils.
- Mix the product thoroughly before use.

(See following)



## TECHNICAL CHARACTERISTICS

	Standard	ECOSOLARIS
Appearance		Liquid
Colour		Aluminium
Density	EN 2811-1	1.00 ± 0.10 kg/L
Dry residue at 130°C	UNI EN ISO 3251	52 ± 3%
DIN4 cup viscosity	Internal method	18 ÷ 26 seconds
Storage in original packaging in a dry place		12 months
<b>Workability characteristics</b>		
Waiting time - for dust-free drying (*)		30 ÷ 60 minutes
Waiting time - till touch dry (*)		2 ÷ 3 hours
Waiting time - for applying each coat over the previous one (*)		6 hours
Waiting time - before overpainting (*)		12 ÷ 24 hours
Application temperature		+5°C ÷ +35°C
Application		manual or spray
<b>Performance characteristics</b>		
Emissivity in the infrared	Standard ASTM C-1371	Product performance <0.50

Test conditions: temperature 23±2°C, R.H. 50±5% and air speed in the test area <0.2 m/s. These figures may vary depending on the specific conditions of the worksite: temperature, humidity, ventilation, absorbency of the base coat.

(\*) The stated times may be longer or shorter as the temperature decreases or increases.

(See previous)

- Keep the containers sealed before use.
- Do not use high speed mechanical stirrers to mix the product (they may reduce the power of the aluminium flakes to come to the surface).
- The presence of residues on the bottom is not an indication of a damaged product, but the normal stratification of the aluminium paste.
- Apply at temperatures between +5°C and +35°C. Do not apply in extremely hot or cold conditions. Do not apply when there is a risk of the temperature falling below +5°C while the paint film is drying. Do not apply on very hot surfaces because the film-forming process would be accelerated excessively, with negative consequences for the product's cohesion and adhesion to the surface.
- Even though it is a solvent-based product, do not apply if there is a risk of rain while the film is drying.
- Apply the second coat when the first coat is completely dry.
- The product must not be walked on, except occasionally for periodic maintenance.
- Newly applied bituminous surfaces usually have superficial 'outcrops' of hydrocarbons, which make perfect adhesion of paint films problematic. We recommend painting the

coverings only after 6 months from laying: this period is usually sufficient to eliminate outcrops. However, just waiting is not always enough. We therefore recommend making an assessment of the surface, by empirical tests with adhesive tape, in order to evaluate the quantity of dirt and the adhesion of the paint, if used (the tests are described in the booklet entitled "Guide to waterproofing"). If the surface is dirty, clean by brushing and washing with water. If applying to a new covering, the surface of the last layer must be slated. For new, talced and sanded membranes, if you cannot wait for the membrane to season or if there is talc residue or surface outcrops, it is essential to prime the surface with PREPAINT, as indicated in its technical data sheet.  
 - Slated membranes may be coated immediately after installation even without using the fixer, once the surface has been thoroughly cleaned. - Membranes with fabric finish (texflamina) must be coated immediately after installation.

- Product applied to bitumen polymer membranes laid over insulation packages can form small surface cracks over time, which do not however jeopardise the waterproofing in any case.

- After use clean the tools with water and, if the product has dried, it is recommended to remove it with white spirit or hot water.
- Not frost-proof, keep at temperatures above +5°C.

the numerous possible uses and the possible interference of conditions or elements beyond our control, we assume no responsibility regarding the results which are obtained. The purchasers, of their own accord and under their own responsibility, must establish the suitability of the product for the envisaged use.

The figures shown are average indicative figures relevant to current production and may be changed or updated by INDEX at any time without previous warning. The advice and technical information provided, is what results from our best knowledge regarding the properties and the use of the product. Considering

## PACKAGING

- 20-kg Pail
- 10-kg Pail
- 5-kg Can

• FOR ANY FURTHER INFORMATION OR ADVICE ON PARTICULAR APPLICATIONS, CONTACT OUR TECHNICAL OFFICE • IN ORDER TO CORRECTLY USE OUR PRODUCTS, REFER TO INDEX TECHNICAL SPECIFICATIONS •

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