

# ECOROOF REFLECT

**3-in-1 cool roof white coloured coating for thermal renovation of bituminous roofs.**

## DESCRIPTION

ECOROOF REFLECT is a new generation cool roof coating, designed for thermal renovation and protection of bituminous roofs. This single-component white liquid coating in aqueous phase is easy to apply.

Its formulation provides a 3-in-1 function:

- Integrated primer: blocks and stabilises the migration of compounds from the substrates, such as oils, pollutants or contaminants;
- Base coat: forms a continuous, elastic and resistant membrane, with a high SRI white surface, adapted to thermal variations;
- Finishing coat: promotes cleaning and maintenance of optical properties over time.

ECOROOF REFLECT limits the heating of substrates, improves thermal comfort and contributes to extending the service life of materials. After drying, it provides surface waterproofing adapted to sloped substrates, without constituting a structural waterproofing system.

## FIELD OF APPLICATION

ECOROOF REFLECT is designed to reduce solar heating of roofs and durably protect existing substrates. It is particularly suited to bituminous roofs exposed to strong thermal variations.

Thanks to its 3-in-1 technology, it ensures the blocking of substrate migrations, solar reflection and surface protection. It can be used in industrial, tertiary, commercial, agricultural or residential buildings, after substrate assessment and in compliance with application conditions.

## ADVANTAGES

- 3-in-1 cool roof solution, avoiding the multiplication of successive products: integrated anti-migration primer, reflective base coat and washable finishing coat.
- Blocking agents that limit oil and contaminant migrations from the substrate.
- High SRI, contributing to limiting heat absorption and improving summer thermal comfort.
- Elastic and continuous membrane, capable of following substrate movements.
- Resistant film, adapted to the thermal and climatic stresses of exposed roofs, with high adhesion (>3 MPa in tension), contributing to system durability.
- High-cleanability surface, designed to limit the impact of soiling on reflective performance.
- Simplified application and potential time savings on site.
- Waterborne formulation with no solvents.
- Solution adapted to energy renovation projects and urban heat island reduction.

**APPLICATION**Substrate preparation

The substrate must comply with best practices and applicable standards. Proper preparation determines system performance. It must be:

- clean, dry, sound and cohesive;
- free from dust, grease, oils, moss or contaminants;
- free from any non-adherent or degraded parts;
- free from any water pooling.

Application method

ECOROOF REFLECT is applied by airless spray, roller or brush.

- Apply the product in 1 coat (smooth surfaces) or two coats (textured surfaces).
- Respect a minimum total consumption of 1 kg/m<sup>2</sup>: to be adjusted depending on the porosity of the substrate.
- Ensure a continuous, homogeneous and defect-free film.
- The product is ready to use. Do not dilute. Stir before use.
- Ambient and substrate temperature: +5°C to +30°C. Substrate dry, not frozen and not overheated.
- Do not apply in full sun or on an excessively hot substrate.
- Do not apply if rain is imminent.
- Relative humidity <80% recommended.

Drying

- Touch dry: approximately 60 minutes at 20°C. Recoating time from touch dry.

Cleaning

- Cleaning of material with water straight after application.

**LIMITATIONS OF USE**

Do not apply ECOROOF REFLECT in the following cases:

- wet, frozen, non-cohesive, friable, dusty, greasy or heavily soiled substrates;
- substrates with existing leaks, open cracks, significant blistering, delamination, adhesion defects or unrepaired waterproofing issues;
- areas subject to permanent or repeated water pooling;
- application when rain, fog or condensation is imminent, or on an overheated substrate;
- application on synthetic substrates or special coatings without prior compatibility testing.

**MAINTENANCE**

- Periodic surface maintenance is recommended to maintain reflective performance over time.
- Annual visual inspection of the roof.
- Cleaning with water at moderate pressure, avoiding any action likely to degrade the film.
- Rapidly treat soiled, contaminated or mechanically damaged areas.

**CHARACTERISTICS(\*)***(\*) Values under laboratory conditions; may differ on site.*

| Characteristic                    | Value / comment            |
|-----------------------------------|----------------------------|
| Colour                            | White                      |
| Base                              | Aqueous acrylic dispersion |
| Application temperature           | 5 – 30 °C                  |
| Density                           | +/- 1,25 kg/L              |
| Minimum total consumption         | 1 kg/m <sup>2</sup>        |
| Touch dry at 20 °C                | 60 min                     |
| Thermal resistance                | -20 °C a +60 °C            |
| Elongation at break               | 120%                       |
| Tensile strength                  | 3 MPa                      |
| SRI – Solar Reflectance Index     | 112                        |
| SRI after accelerated ageing      | In progress                |
| Liquid water permeability         | W3 – Impermeable           |
| Abrasion resistance / washability | Washable Class 1           |
| VOC content                       | 0 g/L                      |

**PACKAGING**

22 kg pail / pallet of 24 x 22 kg. Other packaging available on request.

**STORAGE**

12 months, sealed in original packaging, between +5°C and +25°C. Keep away from heat sources and direct sunlight.

**SAFETY**

Consult the safety data sheet before use.

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