



Transform your project with Suberlev from Falconstema, an innovation in thermal and acoustic insulation.

THERMO-ROOFS SHIELD



Technical sheet

DESCRIPTION

Waterproofing formulated with first quality and latest generation acrylic resins. It is composed of hollow microspheres and special reflective micropigments, which act as a protective shield of thermal bridges and spacers, neutralizing solar radiation, with almost 90% of solar reflection.

APPLICATION

Recommended for:

- **Waterproofing** and protection on roofs, terraces and spacers with leak problems.
- **Seamless thermal correction**, avoiding thermal bridges. **Reduces the temperature of roofs of homes and industrial buildings**, by more than 40%, depending on the outside temperature and the support where it is applied.
- Rooms and premises where **energy saving** is required, both in cold climates with heating economy or in warm weather, with frigories economy.
- **Moisture removal**: minimizes the appearance of mold and fungi on surfaces.

PROPERTIES

- Very water repellent, **rainwater-proof**.
- Thermal insulation and **anti-condensation**, not favoring heat exchange.
- Elastic and flexible coating, **with the ability to bridge cracks in roofs, facades, intermediate levels, etc.**
- Breathability, avoiding possible condensation.
- Sound absorbing, exerting a sound dampening effect.
- **Good adhesion on difficult surfaces** such as galvanized steel, thanks to the promoter of adhesion included in its formulation.
- High covering power and easy application.
- Flexible and elastic even at low temperatures
- Washable. Excellent color retention and **high resistance to the outside**.

SURFACES

- Roofs, rooftops, balconies, terraces, brick, asphalt fabric, rigid foam polyurethane, roofs or roofs in galvanized sheet...
- Usual construction supports, pre-primed, in good condition and with good adhesion to the support.

SURFACE PREPARATION

- The substrate must be perfectly clean, without traces of dust and completely dry. Sand polished surfaces to open pores.
- Sanitize the degraded supports (poorly glued paints, mold, foam...). In case of mold, foam... etc., clean the surface with water and bleach before applying **Fungilev fungicide**.
- Treat possible defects with **Thermal Mastic**. Use mortar to repair areas of major damage first.
- Check the strength and anchorage of the support with stability tests.
- Apply **Suber-Fix** on dusty surfaces or with excess absorption, allow to dry for 4 to 6 hours.

INSTRUCTIONS

- **Mixing:** Mix the product well until it is completely homogenized (up to 8 - 15% clean water can be added if necessary).
- **Application:** Apply two, three coats of Thermal Roof Protection according to the minimum consumption required to meet recommended performance requirements; with a brush, roller or appropriate spray equipment.
- **Drying time:** Leave to dry between layers for at least 8 - 12 hours (variable depending on thickness and humidity).
- **On horizontal surfaces,** and when the complexity of the support requires it, it is recommended to apply the mesh/ fiberglass, interspersed in the Thermo-Roofing Protection (mesh: 60 - 80 g/ m², or fiberglass Mat: 225-300 g/ m²).
- **Flat Roofs:** To create a protective layer, allowing greater practicability of the roof and its maintenance of the same occasion, and, to ensure a 7-year warranty, apply 150 ml/ m² of Suberlev practicable varnish.

RECOMMENDED CONSUMPTION

- On **facades** apply **0.8 - 1.5 L/m²**. On **roofs** apply **0.8 - 2 L/m²** (for thermal reflection apply a minimum of 0.6 L/m²); and for **waterproofing**, apply at an efficiency of **2.5 L/m²**,
- In places where the **support is unstable** (cracked or cracked) it would be recommended to put **60 g/m² fiber glass mesh**.

RECOMMENDATION OF USE

- Application temperature between 5 - 45°C
- Do not apply with risk of frost, direct sunlight, strong wind or rain.
- Clean tools with water immediately after application

SALES FORMAT

- 15 L polypropylene buckets. Pallets of 509.85 kg (33 cans).
- White color, See **SUBERLEV Color Chart** on technical consultation.

STORAGE

Store in a **cool place**, at a temperature between **5 - 45°C**, away from exposure to sunlight and frost. **Up to 2 years** from the date of manufacture, in the original container sealed and protected from moisture.

SPECIFICATIONS / TECHNICAL DATA SHEET

- **Color:** White
- **Density:** 1.1 kg/L \pm 5%
- **Solids in volume:** 71%
- **pH:** 7,8 \pm 1
- **Solar reflection factor:** 83,9%
- **Heat flow test:** 73,84%
- **Allowed dilation:** 190%
- **Tensile strength:** 30 kg/cm²
- **Microsphere size:** \leq 28 μ m
- **Thermal conductivity microspheres:** 0,05 W/m.K
- **Outdoor resistance:** 7 years warranty
- **Solar reflection factor:** 83,9% - Standard: ASTM G173 – 03
- **Emissivity:** 0,75 - Standard: ASTM C1371 - 04a (2010)e1
- **SOLAR REFLECTANCE INDEX:**
- **Convection coefficient: SRI:**
 - 5 W/m² K = 101.8 – Standard: ASTM E1980 - 11
 - 12 W/m².K = 102.8 – Standard: ASTM E1980 - 11
 - 30 W/m².K= 103.6 – Standard: ASTM E1980 – 11
- **Heat flow test:** Decrease up to 73.84% - Standard: UNE-EN 1062-3
- **Water vapour permeability:** Class I: permeable to water vapour – Standard: EN 1504-2
- **Average permeability:** 0.01 \pm 0.001 kg/(m² h^{0.5}) – Standard: EN 1504-2
- **Viscosity:** 60.000 cps 5.000 at 22°C (2.5 r.p.m., sp-6) – Standard: Brookfield LTV
- **Sound absorption:** W= 0,10 – Standard: UNE-EN ISO 354
- **Fire response:** M1 - Standard: UNE 23721
- **Artificial aging (3000 cycles):** No change in appearance, no scratches, no exfoliation, no blisters, no loss of adhesion. – Standard: UNE-EN ISO 11507
- **Medium adhesion:** 18.35 Kg/cm² \pm 2.04 Kg/cm² - Standard: EN 1504-2

PRECAUTION

- Keep away from children.
- Prevent the product from sticking and drying on the walls of the container. Lumps would cause gun jams and make application difficult.

STRANDARD

Solar reflection factor: ASTM G173 – 03

Emissivity: ASTM C1371 - 04a(2010)e1

SOLAR REFLECTANCE INDEX:

Convection coefficient: **SRI**:

5 W/m² K: ASTM E1980 - 11

12 W/m² K: ASTM E1980 - 11

30 W/m² K: ASTM E1980 – 11

Heat flow test: UNE-EN 1062-3

Water vapour permeability: EN 1504-2

Medium permeability: EN 1504-2

Viscosity: Brookfield LTV

2 Sound absorption: UNE-EN ISO 354

Reaction to fire: UNE 23721

Artificial aging (3000 cycles): UNE-EN ISO 11507

Medium adhesion: EN 1504-2

NOTE

SUBERLEV products must be applied by applicators approved by the manufacturer.

The above information is based on our practical experience and laboratory tests. Given the wide variety of construction materials available and the many application methods beyond our control. It is essential to carry out sufficient practical tests and verifications in each case to ensure the compatibility of the product with each specific application.

