

**TERMOIMPER CHAPA**

Thermal insulating waterproof coating for steel, sheet metal, iron, and similar surfaces

**Description:**

Elastomeric thermal insulation coating formulated with acrylic resins in emulsion, special pigments, and borosilicates. It incorporates insulating nanospheres that enhance the reflection of ultraviolet solar radiation. Its composition has been specifically developed for application on steel, galvanized sheet metal, zinc, PVC, and masonry surfaces. In addition, it contains corrosion inhibitors, allowing application on oxidized materials while providing protection.

**Uses:**

Recommended for surfaces exposed to sudden temperature changes. Its high quality makes it suitable for both protection and decoration of horizontal and vertical surfaces, including:

- \* Buildings and residential properties
- \* Industrial facilities
- \* Roofs and coverings
- \* Metal surfaces (steel, aluminum, iron, galvanized sheet metal)
- \* PVC and other construction materials

Notable for its effectiveness as a barrier against carbonation.

**Properties:**

- \* High elasticity: does not crack or split under expansion or contraction of the substrate.
- \* Crack-bridging capability.
- \* Photo-crosslinking system that reduces surface tackiness and dirt accumulation.
- \* Excellent weather resistance.
- \* Effective barrier against CO<sub>2</sub> diffusion.
- \* Self-cleaning effect due to rainwater action.
- \* Excellent adhesion to multiple substrates (metal, concrete, PVC, glass, etc.).
- \* Resistance to alkalinity (mortars, cement, concrete).
- \* Anti-mold protection and resistance to algae growth.
- \* Contains corrosion inhibitors.
- \* Provides thermal insulation, significantly reducing heat transfer.
- \* Contributes to compliance with building regulations regarding insulation.
- \* Sound-absorbing properties that help reduce noise transmission.

**Technical characteristics:**

- \* Color: Optical white
- \* Finish: Matte
- \* Touch dry: 3 hours
- \* Recoatable: 8 hours
- \* Density: 1.30 g/cm<sup>3</sup>
- \* Elongation: 325%
- \* Microsphere size: 60 µm
- \* Thermal conductivity: 0.026 W/m·K
- \* Thermal reduction: between 7 and 15 °C (3 coats)
- \* Solar Reflectance Index (SRI): 88
- \* Vapor permeability: Class I
- \* Aging resistance: no visible changes after testing

**Application instructions:**

For optimal thermal insulation performance:

- \* Apply 3 coats:
  - \* First coat diluted with 5% water
  - \* Subsequent coats undiluted or with a maximum of 5% water
- \* No primer required; however, if rust is present, remove loose material and apply a prior anti-corrosion treatment (e.g., TECPINT OXIDO).
- \* Apply using roller, brush, or spray equipment with a wide nozzle (2–2.5 mm).
- \* For spray application, dilute approximately 10% with water; use a 2–2.5 mm nozzle. Pressure: 75 atm.
- \* Apply in cross coats to ensure uniform coverage.
- \* Recommended thickness: minimum 1 mm (dry).
- \* The substrate must be clean, dry, and free of mold or efflorescence.
- \* Avoid foot traffic on the surface for at least one week after application.
- \* Do not apply under adverse conditions: rain, frost, or intense sunlight.

**Coverage (approximate):**

For thermal waterproofing (1.5 mm thickness):

650–800 ml/m<sup>2</sup>, depending on the substrate and application conditions.

