



tillica

Tillica Tinta

ISO.TILLICA TIN.

Assorestaurò



## Product description

Thermal paint is formulated with amorphous silica (Aerogel) and lime putty, which, when applied in thin films 0.3–0.6 mm thick, creates a barrier to heat transfer. It reduces heat loss in winter and absorption in summer, evens out the surface temperature of walls and prevents condensation and mould.

**PACKAGE** 10 litres

**COMPOSITION AND PHYSICAL PRINCIPLES** Lime putty, Amorphous silica, Aerogel

## Application and recommended thicknesses

1. Substrate preparation
2. Remove dust, old paint, and mould
3. Apply a coat of Antibacterial Fixative (Natural Calk). To make the surface uniform, use Natural Calk Bio Rasante (Smoothing Substance).
4. Film distribution:

Thickness per coat: 150–200 µm

The company takes over sole responsibility for the product until it leaves our factory. Application, use and processing are the sole responsibility of the customer and the applicator.

Arte e Mestieri

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Number of coats: 2–4 (with 1.5 mm equal to 8–10°C)

Drying times, touch dry: 3–5 hours (20°C) Recoat: after 12 hours without a maximum limit

Recommended tools: brush, short-haired roller, or airless spray for a uniform film.

Over Tillica Tinta, apply a final finish with Lime Milk Tint (NaturalCalk). It can be pigmented.

If painting outdoors, apply Bio Protective Mix (NaturalCalk) by spraying from bottom to top.

## Characteristics

### Coverage

1 litre, two coats

4 m<sup>2</sup> smooth wall 3

m<sup>2</sup> rough wall

Increasing the thickness proportionally decreases the square metres

### Properties

RT (R) with 1.5 mm = 0.0015 m: **0.75 m<sup>2</sup>·K/W**

Typical thickness per coat: **200–500 µm**

Reflectance R (%): **90**

Emissivity E (%): **91**

SRI Solar Reflectance Index: **106**

Sd (m): **µ 0.10**

Durability: **Excellent**

Applications: **Interiors, exteriors, roofing**

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## Advantages

Reduction of thermal bridges and temperature changes

Prevention of condensation and mould thanks to increased local thermal resistance, thus maintaining a healthier indoor climate thanks to the hygrometric balance of the rooms. Ideal for sensitive areas (children's rooms, bathrooms, kitchens, laboratories).

Quicker and lighter application compared to thick insulation and panels

Anti-corrosion and anti-condensation properties useful in humid environments. Tillica Tinta insulates in terms of both transmittance, reflectance, and emissivity.

The combination of amorphous silicon (Aerogel) and lime putty offers a lightweight, breathable, and durable system, capable of combining energy efficiency and indoor well-being.

## Compatible with historic buildings and artistic decorations

Tillica® paint is formulated with lime putty, a natural binder traditionally used in conservative restoration. This choice makes the product perfectly compatible with historic surfaces, thus respecting the breathability of the original materials and ensuring optimal adhesion even on delicate substrates.

Thanks to its thin application, Tillica® paint allows thermal insulation of decorated surfaces, mouldings, cornices, and architectural reliefs without altering their shape or compromising their aesthetic integrity. Where traditional materials would require invasive thicknesses or destructive interventions, Tillica Tinta offers a non-invasive, reversible solution that respects artistic heritage.

Tillica Tinta is therefore ideal for interventions on historic buildings,

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period villas, listed buildings, and artistic facades, where the preservation of detail is as essential as energy efficiency.

It complies with the relevant UNI/NorMaL technical standards for restoration.

### **Benefits of using lime putty as a binder in Tillica Tinta paint**

Natural humidity regulation

High vapour permeability: it absorbs and releases moisture, thus keeping walls dry and preventing condensation and mould.

Healthier indoor climate thanks to the balanced humidity of the rooms.

Antibacterial and anti-mould action

High alkaline pH that inhibits the growth of fungi and bacteria without chemical additives.

Improved air quality and long-lasting protection against spores.

Sustainability and safety

Completely natural binder, free of VOCs and toxic substances.

Recyclable as an inert material at the end of its life, with low environmental impact. Strength and durability

Greater adhesion even on old plaster or difficult surfaces.

Excellent dimensional stability, it resists thermal shock without flaking.

Aesthetic and chromatic finish

Matte and velvety surfaces, with a unique material elegance.

Intense natural white, easily pigmented with iron oxides or natural earths.

Self-healing of micro-cracks thanks to slow carbonation, which seals small cracks.

It maintains breathability even in thin films (0.3–0.6 mm), thus allowing moisture to evaporate without degrading the thermal film.

It improves surface solar reflectance, enhancing summer effectiveness.

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### **Advantages of using amorphous silicon (aerogel)**

Advantages of aerogel over other types of fillers ( $\lambda \approx 0.02-0.03$  W/m K)

Solar reflectance, emissivity, and energy efficiency  
Resistance to thermal cycling and UV radiation

Water-repellent properties

No degradation of amorphous silicon over time  
Breathability and moisture management

The aerogel maintains high vapor permeability ( $Sd \approx 0.10$  m),  
protecting the substrate from condensation

During the mixing phase with a whisk, the aerogel does not degrade.

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## Specifications

Insulating paint, with heat-insulating and heat-reflecting properties (TILLICA), applied by brush, roller, or spray, composed of seasoned lime putty and amorphous silica. A guaranteed product without chemical additives, VOC-free, which does not create waste, is fully recyclable, breathable, fire-retardant A2-s1,d0, non-toxic, and completely natural.

Price per square metre.....

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