



tillica

Tillica Colla

ISO.TILLICA COL.

Assorestauro



Product description

Tillica Colla (Glue) is a ready-to-use, wet-paste mineral thermal insulation adhesive formulated with natural binders and nanotechnology fillers. Excellent for green architecture and architectural restoration, it is specifically designed for bonding tiles and stone decorations, etc., on plaster. Its composition ensures high mechanical adhesion, breathability, and chemical-physical compatibility with natural building systems.

PACKAGING Wet product in 15-litre or 10-kg buckets.

Characteristics

Composition

Base: Aged lime putty

Technologies: Amorphous silica (aerogel)

Additives: None (100% natural)

Appearance: Homogeneous white paste

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.



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Technical features

Breathability: **Excellent**, it promotes the passage of water vapour

Compatibility: Ideal for lime, clay, cocciopesto, and other natural materials and concrete finishes

Application: **Manual**, on interior and exterior surfaces

Tensile strength: $\geq 2 \text{ kg/cm}^2$

Thermal conductivity: $\lambda 0,002$

Recommended thickness: **2–5 mm**

Workability time: ≈ 60 minutes

Setting time: ≈ 24 hours

Colour: **White**

VOC: **None**

Breathability: **High**

Storage: **Non-perishable** (long shelf life in unopened packaging)

Fire reaction class: **A2-s1,d0** (fire resistant / non-combustible)

Sound absorption: **Present**

Advantages

High adhesion on mineral and natural surfaces. Thermal insulation in minimal thicknesses.

It can be applied to new and old walls, as well as plasterboard for tiles and stone. Environmentally friendly: breathable, bactericidal, non-toxic.

Energy saving: it reduces heating and cooling costs. Application: manual.

Eco-friendly: 100% natural product. It does not create hazardous waste.

Natural and breathable, ideal for green building and renovation.

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Directions for use

Prepare the substrate: clean, dry, free of dust and loose particles.

Apply a coat of antibacterial fixative (Natural Calk) and then the adhesive with a notched tile spatula.

Install the tiles within 30 minutes.

Let dry for at least 24 hours before grouting. Since this adhesive does not contain setting accelerators, it will slowly and continuously develop over time.

Practical Tips

On drywall, apply a coat of Bionasante (Smoothing Substance) Plus (NaturalCalk) to ensure good adhesion.

Working times may vary depending on ambient temperatures and surface absorption.

If the surface is too absorbent, spray a coat of Primer 12 (Natural Calk)

and let dry for 4 hours.

If applied outdoors, once the adhesive has set and the wall is dry, spray Bio Protective Mix (Natural Calk).

If the Tillica adhesive requires adding water, this can be done based on the user's experience and needs; it can vary from 1/4 to 1/2 litre.

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Arte e Mestieri

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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 vapour permeability ($S_d \approx 0.10$ m), protecting the substrate from condensation.

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

Specifications

Insulating glue with heat-insulating and heat-reflecting properties (TILLICA) is applied with a notched trowel and is composed of seasoned lime putty and amorphous silicon. Guaranteed product without chemical additives.

VOC-free, it does not create waste. It is completely recyclable, breathable, fire-retardant (A2-s1,d0), non-toxic, and completely natural.

Price of material per square metre.....

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