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## BIO TILLICA PROTOCOL DESCRIPTION CERTIFIED AND PATENTED

**TILLICA** is an innovative **bio product** “made in Italy” (made in accordance with **UNI EN ISO 9001-2015** quality system **CE marking, obligation to sell in EUROPEAN UNION** and in the world with respective recognitions) **patented and ecological, made only with lime putty (tradition) and aerogel nanotechnology (innovation), tested by National certification agency CERTIMAC (ENEA - CNR), CATAS, RINA and also certified by swiss authenticator AEAI – VKF**, attributable to the IT platform **NANDO EUROPEAN COMMISSION (New Approach Notified and Designated Organizations)**.

In construction **bio protocol (kit, system) TILLICA** is used for energy **saving and improvement of the building energy classification and applied inside the building for the bio living comfort** (TILLICA is ecological, natural and recommended to intolerant people to chemical products) allows breathability (air temperature and humidity) **avoiding the development of mould and steam**. Health is a guaranteed constitutional right and **building healthiness is a building agility requirement, mentioned in the Testo Unico dell’Edilizia** (Construction Single Text) by giving responsibility to design engineers, construction company and owners the acknowledgement of capital and health damage.

Small size (5 mm thickness compared to 10 cm thermal thickness panels, piedmont area in Italy) of application inside or outside the building, allows saving space and sqm (square metre) giving higher value to the building and it is the technical solution also for renovations building in historic centre in the old town subjected to historical-architectural constraint, without extraordinary building projects for restoration for example of the windows outline and sills (air-illuminating conditions).

Bio protocol TILLICA **is applied also by spraying (mechanically)** reducing building management time and charge, **it doesn’t modify the current building structure, it’s fire-resistant A1 EC market (RF1 Swiss market certificate AEAI-VKF) free from harmful substances VOC, Volatile Organic Compound (COV Composti Organici Volatili)**.

In Italy it is approved to obtain benefits of the current tax incentives.

**Bio protocol (kit, system) TILLICA** for external walls application consists in 4 bio products (fixative + insulating + plaster + protective) **to make FINISHED the side/sides of the building and be the unique supplier of patented technology:**

**1 Bio fixative anti-bacterial (lime-based solution)**

**2 TILLICA bio paste patent (made only with lime putty and aerogel)**

**3 Bio lime putty little plaster for external and internal finishes (granulometry and colour) decided by contractor**

**4 Natural bio protective (oleo-hydrophobic impregnating, breathable, free from VOC, non-flammable, non-toxic, neutral.**

**The application made by building installers** (fast and easy to do) **is complete for technique and aesthetics** on building external, interior walls and ceilings resulting, we confirm, **the unique supplier “insulation and finishing” responsible.**

The **internal application** could be completed with high-quality solutions: Venetian plaster (stucco veneziano), polished, sponge decoration etc

Bio product TILLICA paste is ecological, thermal, low thickness plaster made only with lime putty and aerogel nanotechnology. It's certified and patented.

It's not a thermal paint or similar.

It's not a thermal *synthetic* panel (polyester, polystyrene, polyurethane, polyethylene, foams), *mineral* (glass wool, rock wool, expanded clay, expanded perlite, expanded vermiculite, felts) or *vegetable* (wood mineralized fiber, cellulose fibre, hemp fiber, flax fiber, wood fiber, cork).

It's possible to increase the thickness of TILLICA (paste) bio product for technical requirements that depend on climatic zone where the building to qualify is, obviously in according with a **CERTIFIER TECHNICAL OFFICE**.

It's **CAM category (Criterio Ambientale Minimo- Minimum Ambiental Requirement) certified**, it's bio product, It's 100 % recyclable (it's not special waste), it doesn't rot, it's free from VOC, COV, A1 reaction to fire classified, always.

We are part of ASSORESTAURO ITALIA, we obtained the certifications from National Institute CERTIMAC, (ENEA, CNR), CATAS and RINA and International Swiss Institute AEAI-WKF, recognized and estimated in all the world.

TILLICA bio protocol has been sold for more than ten years, in Italy and abroad, to building installers that used our bio solution without having any complaint with their work from technical offices, ENEA and final customers: **THE UNIQUE AND REAL BENEFICIARIES OF TILLICA BIO SOLUTION.**

#### **SPECIFICATION ITEMS:**

Thermal insulation and natural thermal heat-reflection plaster, high performance and low thickness with antibacterial properties for external and internal walls already plastered and perfectly planar, made with a mixture of aged lime putty (in according with UNI EN 459-1 regulation) and amorphous silica (aerogel), high breathability, permeability to water vapor micron  $\leq 5,8$  in according with UNI EN ISO 7783 regulation, water absorption W1, reaction to fire classified A1 in according with UNI EN 13501-1 regulation, free from Volatile Organic Compound VOC-COV, in according with directive 2004/42/CE with the following thermal performance: 5 mm-  $\lambda$  0,0020 W/mK, solar reflectance average in according with ASTM E 1980-11, 0,96, regulation, acoustic absorption coefficient ENI EN ISO 10534-2 at 500 Hz-10 mm= 0,16 realized by hand-applied or spraying machine application, finished with plastering trowel, 5 mm TILLICA paste thickness before applying the adherence primer (natural fixative), then fresh on fresh shaving application with a paste mixture of mortar, lime putty (aged in according with UNI EN459-1 regulation) and mineral aggregates (granulometry) white or colored finished with a protective layer oleo-hydrophobic impregnating, breathable based on fluorinated polymer in aqueous dispersion, free from Volatile Organic Compound VOC-COV.

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