ST500

A versatile and easy-to-work white sponge plaster, which can be applied to traditional or pre-mixed plaster, indoors and outdoors as the last plaster layer, to facilitate the application of smooth finishes and increase aesthetic value and performance.

TROWEL APPLICATION

FOR INDOOR AND OUTDOOR USE

SINGLE-COMPONENT PRODUCT

POLVERE DI MARMO

AGGREGATI ALLEGGERENTI

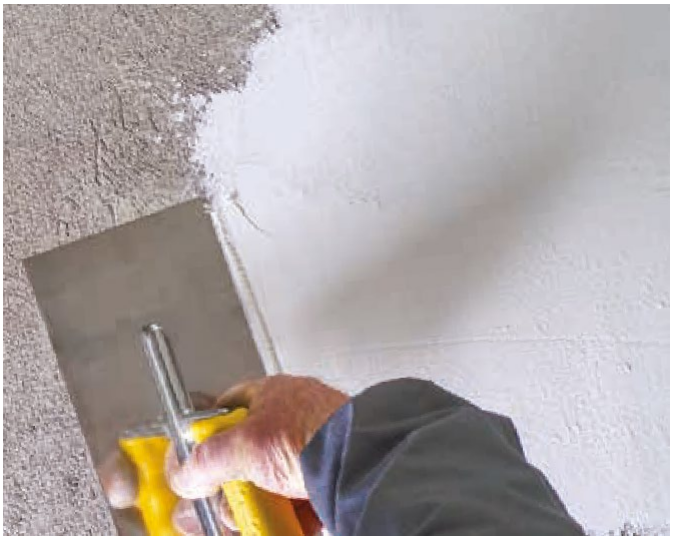
RESINATA

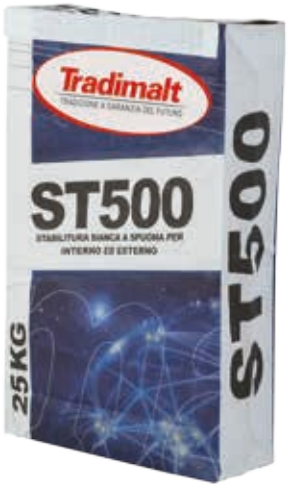
RICICLO CATEGORIA R5

RESA MIGLIORATA

Use this QR code for further details on application modalities, safety sheet and other information.

35 Product code





Technical characteristics

Apparent density	**1100 kg/m³**
Mixture water	**30 - 32%**
Workability time	**1 h**
Coating time with paint products	**21 days**
Waiting time between the first and second layer	**1 h**
Aggregate maximum size	**<0.6mm**

Compression resistance at 28 days	**2.5 MPa**
Max. thickness per coat	**2 mm**
Theoretical consumption per cm of thickness	**1 kg/m₂**
Resistance to vapour diffusion (EN 1745)	**μ ≤ 12**
Coefficient of water absorption by capillarity EN 1015-18	**W 1**
Coefficient of thermal conductivity (EN 1745)	**0.30 W/m·K**

Description

ST500 is a white sponge-based stabiliser consisting of hydraulic binders, selected aggregates with a maximum grain size of 0.6 mm and lightening volumetric aggregates that simultaneously improve smoothness, elasticity and yield. It is used indoors and outdoors as the last plaster layer, to facilitate the application of smooth finishes and tlevel unevenness on façade elements of residential, commercial or industrial buildings. Particularly high-quality, versatile, high-performance and easily workabkle while maintaining the breathability of the substrate.

Physical characteristics

Package	**25 kg**
Consistency	**powder**
Colour	**White**
Density of the hardened product UNI EN 1015-10	**1400 kg/m3**

Fire reaction class EN 13501-1	**A1**
Operating temperature	**+5 °C/+35 °C**
Storage	**12 months in unopened packages protected from moisture**

Fields of application

ST500 is used for stabilising surfaces such as:

- pre-mixed plasters, such all those in the Tradimalt line;
- pre-mixed cement and lime based plasters;
- cementitious plasters;
- traditional plasters.

Substrate preparation

The substrates must be even, moist, evenly absorbent and free of unstable parts. Eliminate scraping or sanding dusts often present in the case of pre-mixed, mechanically projected substrates. Concretes must be washed, degreased and free of all traces of salt efflorescence and release oils. Moisten the substrates before application. Unstable and/or inconsistent substrates must first be stabilised with *Tradimalt Consolidante*.

Product preparation

Mix ST 500 with 28 - 30% clean water. Knead with a whisk mixer at low speed, taking care to remove any loose powder from the sides and bottom of the bowl, until complete homogeneity of the product. In the case of over-seasoned and/or dry substrates, it is recommended to apply Tradimalt Primer Isolante beforehand.

Product application

Apply according to the fresh-on-fresh technique, after at least 48 hours from the application of the plaster. Spread the first coat evenly over the entire surface with a steel trowel. After at least one hour, or in any case when the product starts to set, the second coat can be applied. Finish with a sponge trowel when the product is sufficiently dry. Moisten the trowel with water if necessary and sponge the surface with circular movements until a uniform surface free of joints and overlaps is achieved. To improve adhesion, plasticity and workability, it is advisable to mix the product with LGS Plus water dispersion resin instead of traditional mixing water.

Advantages

Marble powder

ST500 BL consists of grains of marble powder. This aggregate enhances durability performance due to its chemical resistance. The low water absorption results in a product that is easy to process, even with moderate amounts of mixing water, offering less shrinkage and improved mechanical characteristics. Historically, marble powder has proved to be the aggregate of greatest aesthetic and functional value. Their mix combines decoration, breathability and resistance to environmental aggression, whether biotic (mould and bacteria) or abiotic (acid rain).

Redispersible polymer powders

Within its formulation, ST 500 has polymers dispersed in powder form that are activated on contact with the mixing water, creating a composite material in which the polymeric phase confers numerous advantages to the mortar, in particular allowing it to increase flexural and tensile strength, reduce the elastic modulus and create a strong bond between the cement-based mortar and the substrate, even if irregular, improving its adhesion.
The presence of specific polymers ensures a better workability during the application and a stronger resistance to water and atmospheric agents in general.

Specification item

Decoration and protection of exterior and interior surfaces with a premixed powdered finish, based on lime, white cement, marble powder and specific additives, to be mixed with water only, such as Tradimalt S.p.A.'s ST 500. This finish, which can go on any substrate, traditional or pre-mixed, must be applied manually with a metal trowel in two passes with a total thickness of 3÷5 mm and then finished with a sponge trowel or smoothed with Tradimalt Rasorapid or Tradimalt Velocalce.
Consumption 1 kg/m2 per mm of thickness.
Compression resistance at 28 days 2.5 MPa

This is Tradimalt's way of communicating, in its information and technical-commercial material, the composition of each product and some of the product's key features. Therefore, the focus is on supply chain transparency, not required by any relevant regulation but which Tradimalt nevertheless intends to offer to its customers in order to emphasise the quality of the raw materials, and thus of the product, as well as the safety that the company intends to demonstrate with regard to formulations. The focus is therefore in the "transparency" that the company intends to manifest in the supply chain, which is not required by any current formulation law.

Raw materials contained in the product

Selected raw materials:

- • Marble powder (0 to 0.6 mm): aggregates that combine great mechanical performance and aesthetic value;
- Cements, Portland cement 52.5 R type I from colour Italian cement factories; with an exceptionally light weight.
- Aerial lime, produced by firing the purest limestones, rocks End-of-life recyclable product. with high calcium carbonate content;
- • Organic co-binder, co-polymers, based on vinyl acetate and ethylene,
- - Perlite, an aggregate of volcanic origin with a typical white

Warnings

- Do not apply on supports that are ice-cold, thawing, or risk to freeze during the 24 hours after the application.
- do not apply at high temperatures and absorbent substrates, always moisten substrates the day before application;
- avoid application in strong wind or full sunshine;
- do not apply on non-absorbent substrates;
- do not apply to products containing solvents, oils or grease;
- protect the mortar from rapid drying and moisten for a few days after application;
- protect the parts not to be soiled;
- do not add neither binding agents nor aggregates to the product;
- store the product in its undamaged packaging and protected from moisture for up to 12 months.

The technical-practical information contained in the technical data sheet is the result of our most accurate and detailed scientific research and experience in the field. However, since we cannot directly influence the site conditions and the execution of the work, this information is to be considered non-binding and therefore not legally or otherwise mandatory for third parties. This information does not exempt the end user from their responsibility to test our products in order to ascertain their suitability for the intended use. We therefore strongly advise the customer/applicator to carry out the appropriate preventive tests of Tradimalt products so that their suitability can be ascertained.