F100BS

Resin-bonded, fibred, white mineral finishing plaster for interior and exterior plasters. Particularly high-quality, versatile, high-performance and easy to work with, while maintaining the breathability of the substrate

TROWEL APPLICATION

FOR INDOOR AND OUTDOOR USE

SINGLE-COMPONENT PRODUCT

POLVERE DI MARMO

AGGREGATI ALLEGGERENTI

1,4 mm GRANULOMETRIA MASSIMA

RESINATA

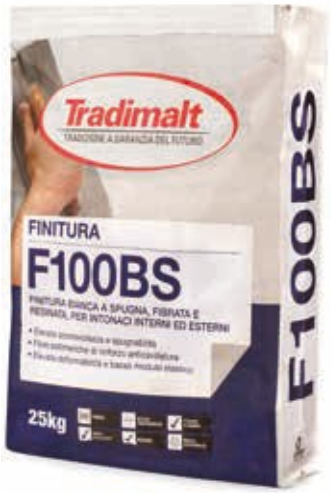
RICICLO CATEGORIA R5

RESA MIGLIORATA

FIBRATA

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

33 Product code



Technical characteristics

Apparent density	**1100 kg/m³**
Mixture water	**26 - 28%**
Workability time	**1 h**
Coating time with paint products	**21 days**
Waiting time between the first and second layer	**1 h**
Aggregate maximum size	**<1.4mm**

Compression resistance at 28 days	**3 MPa**
Max. thickness per coat	**2 mm**
Theoretical consumption per cm of thickness	**1 kg/m₂**
Resistance to vapour diffusion (EN 1745)	**μ ≤ 16**
Coefficient of water absorption by capillarity EN 1015-18	**W 1**
Coefficient of thermal conductivity (EN 1745)	**0.30 W/m·K**

Description

F100BS is a white mineral finishing plaster, containing polymer fibres, special powder additives, selected aggregates with a maximum grain size of 1.4 mm and lightening volumetric aggregates, which simultaneously improve its smoothness, elasticity and yield, used to finish traditional or pre-mixed plasters, in exterior and interior areas, and to level and decorate irregularities on façade elements of residential, business, commercial or industrial buildings.

Physical characteristics

Package	**25 kg**
Consistency	**powder**
Colour	**White**
Density of the hardened product UNI EN 1015-10	**1380 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

Tradimalt F100BS is used for finishing and levelling 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 F100 BS with 26 - 28% clean water. Knead with a whisk mixer at low speed, taking care to remove any loose powder from the sides and bottom of the container, until complete homogeneity of the product is achieved. Prior to application of F100 BS, it is advisable to treat the surface with Tradimalt Primer Isolante (Insulating Primer).

Product application

The application should be done in two layers within the same working day and finished with a sponge. Spread the first coat evenly over the entire surface of the sufficiently cured plaster with a steel trowel. In the case of over-seasoned and/or dry substrates, it is recommended that an adhesion promoter such as Primer Isolante be applied beforehand to even out the absorption of the substrate. After at least one hour, the second layer of F100 BS finish can be applied until the total thickness of the two layers is 3 to 5 mm.

Proceed to the next stage of finishing F100 BS with a sponge pad when the product is sufficiently dry. Moisten the pad with water if necessary and sponge the surface with a circular movement of the tool until the surface is even and free of joints and overlaps.
In order to improve adhesion, plasticity and workability, it is advisable to mix the product with LGS Plus resin in aqueous dispersion instead of the traditional mixing water.

Advantages

Marble powder

F100BS 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, F100BS white 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 an intimate bond between the cement mortar and the substrate, even if irregular, improving adhesion.
The presence of specific polymers ensures a better workability during the application and a stronger resistance to water and atmospheric agents in general.

Reinforcing polymer fibres

F100BS contains polypropylene microfibres. These fibres are randomly distributed within the cement mortar, forming a three-dimensional network in the hardened product The synergy developed from the collaboration between polymer fibres, binders and aggregates facilitates the development of higher shrinkage resistance in the plastic phase and consequently ensures that the product can be laid even at high thicknesses without the risk of crazing, lesions and cracks.

Perlite

Within its formulation, F100BS has volumetric lightening aggregates consisting of perlite. This aggregate with its typical white colour, thanks to its exceptional lightness, improves mechanical performance, but also, and primarily, workability, which translates into better product flow during application, sponging readiness, elasticity and increases yield by about 10%.

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 F100 BS. This finish can be applied on any substrate, traditional or pre-mixed, must be applied by hand with a metal trowel in two passes with a total thickness of 3 to 5 mm and then finished with a sponge trowel.
Consumption 1 $_{kg/m2}$ per mm of thickness.
Compression resistance at 28 days 2.3 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: high calcium carbonate content;

- Marble powder (0 to 1.4 mm), an aggregate that combines excellent
- Perlite, an aggregate of volcanic origin with a typical mechanical performance and aesthetic value; white colour and exceptionally light.
- Cements, Portland cement 52.5 R type I from Italian cement factories (>25%); End-of-life recyclable product.
- Aerial lime, produced by firing the purest limestones, rocks with

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 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.