

Unibianco

White single-pack body plaster, to be applied by machine or by hand, to protect, finish and decorate interior and exterior walls. Unibianco, consisting of white cement, lime, selected aggregates max. 1.4 mm, reinforcing polymer fibres and specific additives.

APPLICATION
SPRAYING

TROWEL
APPLICATION

e i FOR
INDOOR AND
OUTDOOR
USE

SINGLE-COMPONENT
PRODUCT

CE UNI EN 998-1
CERTIFIED
PRODUCT

POLYMERIC
REINFORCEMENT
FIBRES

RECYCLING
CATEGORY R5



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

15 Product code

Also available in

MINIPACK 5kg



Technical characteristics

Type of mortar UNI EN 998 -1	General purposes, indoor/outdoor plasters (GP)
Minimum thickness	2 mm
Theoretical consumption (per cm of thickness)	13 - 14 kg/m²
Compressive strength UNI EN 1015 -11	3.0 MPa
Compression resistance UNI EN 998-1	CS II
Density of the hardened product UNI EN 1015-10	1550 kg/m³

Coefficient of thermal conductivity UNI EN 1745	0.57 W/mK
Coefficient of water absorption by capillarity EN 1015-18	W0
Adhesion to substrate UNI EN 1015-12	0.60 MPa
Fire reaction class UNI EN 13501-1	A1
Water vapour diffusion coefficient [μ]	12

Description

Unibianco is a white background plaster, based on marble polymer and white cement with the addition of microfibres, for mechanised or manual application to decorate or finish residential, commercial, business and industrial buildings with a single product. The special study of mixtures, with the

addition of reinforcing fibres provides good mechanical strength values at both low and high thicknesses and an excellent breathability level. The white cement has a high gloss and an excellent whiteness, giving the finished product exceptional aesthetic characteristics.

Physical characteristics

Supply	25 kg bag / loose / 5 kg minipack
Consistency	powder
Apparent density	1200 kg/m ³
Mixture water	21 - 23%
Fresh mortar specific weight UNI EN 1015-6	1500 kg/m ³
Aggregate maximum size	≤ 1.4 mm

Workability time	60 min
Pot life time	1 h
Waiting time for planing	> 6 h
Downtime	45 min
Temperature of use	+5 °C/+35 °C
Storage period	12 months in unopened packages away from humidity

Fields of application

Unibianco is suitable for indoor and outdoor use in residential, business, commercial and industrial buildings; it is used as a plaster to protect, finish and decorate masonry substrates such as:

- common, thermo-acoustic and porous bricks;
- concrete blocks and autoclaved concrete;
- stone blocks, tuff and limestone;
- concrete structures previously treated with TMA Rinzafo;

- old bricks previously treated with TMA Rinzafo;
- restoration of old masonry, including thick walls;
- for special substrates, the supplier's instructions must be observed.

Thanks to its technical and processing characteristics, Unibianco is also suitable for the production of moulded plasters and the positioning of glass blocks.

Substrate preparation

The substrate must be homogeneous, strong, rough, clean and moist. All traces of oil, grease, wax, etc. must be removed beforehand. On existing masonry, mixed masonry, and poorly absorbent and/or smooth concrete, it is essential to hydro-wash and apply TMA Rinzafo adhesion primer over the entire surface. Joints between different elements (between pillar and masonry, between beam and masonry, etc.) must be reinforced with alkali-resistant glass fibre mesh.

Irregularities of more than 2 cm must be prepared at least

2 days earlier with a filling of Unibianco. For thicknesses of more than 2 cm, we recommend the use of an alkali-resistant glass fibre plaster mesh (10 x 10 mm and grammage 110-140g/m²).

In order to achieve a correct application of the product while respecting the levelling in the walls, it is advisable to prepare vertical guides and corner protectors using only Unibianco.

Moisten the substrate the day before application.

Product preparation

In the case of machine application, the mixing water must be dosed by adjusting the flow meter of the plastering machine until a consistent, plastic mortar is obtained (21 to 23 litres of water per 100 kg of powder).

In the case of application by hand, mix in a concrete mixer or with a whisk mixer at low speed for 4 to 5 minutes using the correct amount of water (5.5 litres per 25 kg bag).

Machine application

Projection onto the surface from a distance of about 20 cm is recommended in order to obtain an even spray pattern. Apply a first layer approx. 0.5 cm thick, wait for it to dry (approx. 15 minutes) and then apply the second layer of the desired thickness. Wait a few minutes before levelling with an aluminium rod h-shaped or knife-edged with horizontal and

vertical passes until a flat surface is obtained. Once the plastic phase is over (when the product is dust dry) the application is finished by sponging, moistening if necessary, until a uniform surface free of joints or overlaps is obtained.

Manual application

Apply a first layer by hand, wait for it to dry (approx. 15 minutes) and then apply the second layer of the desired thickness. Wait a few minutes before levelling with an H-shaped or knife-edge aluminium levelling rod in horizontal and vertical passes until a flat surface is obtained.

Once the plastic phase is over (when the product is dust dry) the application is finished by sponging, moistening if necessary, until a uniform surface free of joints or overlaps is obtained.

Advantages

Marble powder

Unibianco consists of grains of marble powder. This aggregate enhances durability performance due to their chemical resistance. The low water absorption results in the creation of an easily workable product — even with low quantities of mixing water, offering less shrinkage and better

mechanical characteristics. Historically, marble powder has proved to be the aggregate of greatest aesthetic and functional value. Its mix combines decoration, breathability and resistance to environmental aggressions, either biotic (mould and bacteria) or abiotic (acid rain).

Reinforcing polymer fibres

Unibianco 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.

Specification item

White undercoat plaster for protection and finishing, based on marble powder, white cement with microfibres, for manual and mechanised application, for interior and exterior walls to be mixed with water only, such as

Unibianco by Tradimalt S.p.A.
Consumption 13 - 14 kg/m² per cm of thickness.
Compression resistance at 28 days 3.0 MPa



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UNI EN 998-1

Unibianco

General purposes mortar for indoor/outdoor plasters (GP)

Reaction to fire: Class A1
Adhesion: 0.6 N/mm² - FP: B
Water absorption: W 0
Water vapour diffusion coefficient: $\mu 12$
Thermal conductivity: ($\lambda_{10, dry}$) 0,57 W/mK (tabulated value)
Durability: (against freezing/thawing): assessment based on the provisions valid in the place of intended use of the mortar.



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 1.4 mm), aggregates that combine optimal mechanical performance and aesthetic value;
- Cements. Portland cement 42.5 R type II from Italian cement factories;

- Polypropylene reinforcing polymer fibres that develop a stronger resistance to shrinkage in the plastic phase and avoid the formation of crazing, lesions and cracks;

End-of-life recyclable product.

Warnings

- Do not apply on frozen or thawing substrates;
- Do not apply at high temperatures;
- Do not apply on absorbent substrates unless previously treated;
- Always soak until saturated the day before application;
- Do not apply on non-homogeneous substrates unless properly prepared;
- Do not apply on gypsum substrates.
- Do not apply on loose or crumbling substrates;
- Protect the plaster from rapid drying and moisten for a few days after application;
- Application temperature +5 °C and + 35 °C;
- 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.