

# Microblack

Particularly high quality white mineral sponge plaster finish, applicable to traditional or pre-mixed plaster, for interior and exterior use, suitable for supporting organic and mineral paints and coatings.



TROWEL  
APPLICATION



FOR INDOOR  
AND OUTDOOR  
USE



SINGLE-COMPONENT  
PRODUCT



POLVERE  
DI MARMO



AGGREGATI  
ALLEGGERENTI



0,6  
mm  
GRANULOMETRIA  
MASSIMA



RICICLO  
CATEGORIA R5



RESA  
MIGLIORATA



RESINATA



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

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Product code

rev. 2025\_02



## Technical characteristics

|   |                             |
|---|-----------------------------|
| Apparent density                                | <b>950 kg/m<sup>3</sup></b> |
| Mixture water                                   | <b>26 - 28 %</b>            |
| Workability time                                | <b>1 h</b>                  |
| Coating time with paint products                | <b>21 days</b>              |
| Waiting time between the first and second layer | <b>1 h</b>                  |
| Aggregate maximum size                          | <b>&lt;0,6mm</b>            |

|   |                           |
|---|---------------------------|
| Compression resistance at 28 days                         | <b>3 MPa</b>              |
| Max. thickness per coat                                   | <b>2 mm</b>               |
| Theoretical consumption per cm of thickness               | <b>1 kg/m<sup>2</sup></b> |
| Resistance to vapour diffusion (EN 1745)                  | <b>μ ≤ 12</b>             |
| Coefficient of water absorption by capillarity EN 1015-18 | <b>W 1</b>                |
| Coefficient of thermal conductivity (EN 1745)             | <b>0,30 W/m·K</b>         |

## Description

Microblack is a white mineral plaster finish made of hydraulic binders, selected aggregates with a maximum grain size of 0.6 mm and lightening volumetric aggregates, which improve its flow, elasticity and performance. It is used to finish traditional or pre-mixed plasters, in external and internal environments, on façade elements of residential, business, commercial or indu-

strial buildings. Particularly high-quality, versatile, high-performance and easily workable while maintaining the breathability of the substrate.

## Physical characteristics

|   |                              |
|---|------------------------------|
| Package   | <b>25 kg</b>                 |
| Consistency                                       | <b>powder</b>                |
| Colour  | <b>white</b>                 |
| Density of the hardened product<br>UNI EN 1015-10 | <b>1400 kg/m<sup>3</sup></b> |

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

## Fields of application

Microblack 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 Microblack 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. Before applying Microblack, it is recommended to treat the surface with Tradimalt Insulating Primer.

## Product application

The application should be done in two layers within the same working day and finished with a sponge. Apply the first coat of the product to sufficiently cured plaster after at least 24 hours with a steel trowel evenly over the entire surface. In the case of over-seasoned and/or dry substrates, it is recommended to apply an adhesion promoter such as Primer Isolante beforehand, which evens out the absorption of the substrate. After at least one hour, the second layer of Microblack finish can be applied until a total thickness of the two layers of 3÷5 mm is obtained. Proceed to the next stage of Microblack finishing

with a sponge trowel when the product is sufficiently dry. Moisten the trowel with water, if necessary, and sponge the surface with a circular movement of the tool until an even effect without joints and overlaps is achieved. In order to improve adhesion, plasticity and workability, the product can be impregnated with LGS Plus water-dispersion resin in place of conventional mixing water in particularly heavy applications.

## Advantages

### Marble powder

Microblack is made up of grains of marble powder. This aggregate enhances durability performance due to its 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).

### Redispersible polymer powders

Within its formulation, Microblack 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.

### Perlite

Within its formulation, Microblack 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, synthetic resins, marble powder and specific additives, to be mixed with water only, such as MICROBLACK by Tradimalt S.p.A. This finish, to 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÷5 mm and then finished with a sponge trowel. Consumption 1 kg/m<sup>2</sup> per mm of thickness. Compression resistance at 28 days 1.9 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:

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

## 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.

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.