

Monocrete Wall.

Monocrete Wall is a single-component microcement powder for decorative finishes. It has been formulated to be applied as a continuous coating of low thickness on walls. Luxury Concrete® microcements are applied by trowel in several coats allowing a wide variety of effects to be achieved.

As part of an application system, Monocrete Base should be applied on the substrate followed by Monocrete Wall.

Formulated with hydraulic binders, selected aggregates and specific additives, Monocrete Wall must be mixed with water and pigments respecting the proportions in this data sheet to guarantee the properties of the coating.

Once mixed, it can be used to create a coating with a low thickness of 1 to 3 mm with high mechanical resistance and strong adhesion on any type of substrate: concrete, cementitious mortars, ceramics, MDF, plaster and plasterboard.



Technical data

- Type: Monocomponent Microcement
- Appearance: White powder
- Maximum aggregate size:
XS 0.075 mm / S 0.125 mm / M 0.18mm.
- Apparent density:
In powder form: $1.005 \pm 50 \text{ kg/m}^3$
In paste: $1.505 \pm 50 \text{ kg/m}^3$
Hardened: $1.285 \pm 50 \text{ kg/m}^3$ (28 days)
- Compressive strength (EN 13892-2): $\geq 29 \text{ N/mm}^2$ (28 days)
- Flexural strength (EN 13892-2): $\geq 8 \text{ N/mm}^2$ (28 days)
- Adhesion strength (EN 13892-8): $\geq 1.7 \text{ N/mm}^2$ (28 days)

Properties

- Continuous coating without cracks (always respect the expansion joints).
- Applicable on almost any type of support: concrete, cements, ceramics, plaster, plasterboard, etc.
- Excellent workability.
- Wide range of colors and effects.
- High adherence to the substrate.

Instructions for use

a. Preparation of the substrate:

Before applying Monocrete Wall microcement, it is necessary to prepare the surface with Monocrete Base. The substrate must be clean and free of grease, the base must be consolidated and in good conditions of planimetry.

b. Mixing:

Monocrete Wall is mixed with water and pigments according to the selected color. In order to guarantee the properties of the coating, it is essential to respect the ratio between the microcement and the water:

10 kg of Monocrete Wall XS- 3.5 liters of water.

10 kg of Monocrete Wall S - 3.0 liters of water

10 kg of Monocrete Wall M - 2.8 liters of water

c. Mortar Preparation:

The mortar should be prepared as follows:

1. Pour the water into a container, add the entire load of pigment corresponding to the amount of microcement to be worked with and mix until a homogeneous colored liquid is obtained.

2. Pour the microcement powder gradually while mixing the product with a mechanical mixer of low revolutions.

Mix for at least 2 minutes until a homogeneous and lump-free mixture is obtained.

The better the leveling and preparation of the surface to be coated, the better the performance and the lower the cost in material and application time. It is convenient to choose the adequate method for each application.

Application

a. Preparation coats:

Apply two coats of Monocrete Base by metal trowel after coating the surface with the flexible fiber mesh. Before applying a new coat, let the previous one dry and make a soft sanding with a roto-orbital sander and 40 grit sandpaper, in order to eliminate imperfections.

b. Finishing coats:

Apply two coats of Monocrete Wall spreading it with the help of a rubber trowel, using one of the two techniques that follow:

"Fresh over fresh".

Monocrete Wall can be worked using the "fresh on fresh" technique, applying the next coat as soon as the first coat ceases to have "tac". (when the freshly applied microcement stops sticking to the fingers when touched). This first coat of Monocrete Wall does not require sanding. In case of burrs or lumps, these should be removed with the support spatula, removing the protruding material. Apply the next coat working on extruded polystyrene boards. Once the material is dry, make a soft sanding with a roto-orbital sander or with 220 grit sandpaper in order to remove imperfections (as soon as it has changed color and is lighter in color).

"Fresh on dry".

Before applying a new coat, let the previous one dry (about 3 hours) and sand gently with a roto-orbital sander or 220-grit sandpaper to remove imperfections.

Do not apply coats thicker than 1 mm for Monocrete Base and Monocrete Wall microcements. A total system thickness of 1 to 3 mm.

c. Sealing:

Luxury Concrete® microcements should be sealed once hardened within 24 to 48 hours. The coating can be sealed when it has moisture content of less than 5%, the measurement is made with instruments designed for this purpose. Luxury Concrete® microcements can be sealed with Primacrete Finish primer and Concrete Finish WT water-based varnish. We recommend scrupulously following the application advice in the technical data sheets.

Special precautions

This product contains cement.

- Avoid contact with eyes and skin and avoid inhalation of dust.
- Use rubber gloves and protective goggles.
- Do not apply the product at room temperature lower than 10°C and not higher than 30°C.

Low temperatures lengthen and high temperatures reduce considerably the life time of the product and the drying time.

Empty containers should be disposed of in accordance with current legislation.

Keep out of reach of children.

Storage conditions

The product should be stored in its original closed container and protected from the weather at temperatures between 10°C and 30°C, in a dry and well ventilated place, away from sources of heat and direct sunlight. The shelf life is 24 months from the date of manufacture, if properly stored.

Pot-life of the product

The pot-life of the product is 1 hour at about 20°C. We recommend to make mixes according to the applicator's experience.

Consumption

Performance will depend on the substrate to be coated. On a standard application the performance is:

- Monocrete Wall XS (Two coats): 0.60 kg/m².
- Monocrete Wall S (Two coats): 0.60 kg/m².
- Monocrete Wall M (Two coats): 0.60 kg/m².

Packaging

Presented in 15 kg containers.

Cleaning of the tools

The tools are washed with water, immediately after use. Once the material has hardened, it can only be removed by mechanical means.