

Monocrete Base.

Monocrete Base is a single-component microcement in powder form. Designed for the preparation of the substrate prior to the application of Monocrete Floor and Monocrete Wall microcements. It has been formulated to be applied as a low-thickness continuous coating on floors and walls.

Luxury Concrete® microcements are applied by trowel in several coats, allowing a wide variety of effects to be achieved. Monocrete Base can also be used as a finishing microcement.

Formulated with hydraulic binders, selected aggregates, synthetic resins and specific additives, Monocrete Base only requires the addition of water and pigments.

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:
L: 0.3 mm / XL: 0.4 mm / XXL: 0.6 mm
- Apparent density:
In powder form: 1175 ± 50 kg/m³
In paste: 1545 ± 50 kg/m³
Hardened: 1470 ± 50 kg/m³ (28 days)
- Compressive strength (EN 13892-2): ≥ 42 N/mm² (28 days)
- Flexural strength (EN 13892-2): ≥ 11.9 N/mm² (28 days)
- Adhesion resistance (EN 13892-8): ≥ 1.99 N/mm² (28 days)
- Reaction to fire (EN 13501-1): BFL s1

Properties

- Continuous seamless coating (always respect expansion joints).
- Applicable on almost any type of substrate: 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 Base microcement, it is necessary to prepare the surface according to the conditions of the application substrate. Certain applications require specific solutions: flat and flexible fiberglass mesh, Primacrete PLUS or Primacrete ABS adhesion promoters, vapor barriers or Impoxy® rising damp barriers. In any case, follow the recommendations of our technicians.

The application substrate must be clean and free of grease, the base must be consolidated and in good planimetric conditions.

b. Mixing:

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

- 10 kg of Monocrete Base L - 2.20 liters of water.
- 10 kg of Monocrete Base XL - 2.10 liters of water
- 10 kg of Monocrete Base XXL - 2.00 liters of water

c. Sealing:

Luxury Concrete® microcements should be sealed once hardened between 24 and 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.

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:

The application can be finished with a third coat of Monocrete Base using the “fresh on fresh” technique.

“Fresh over fresh”.

Monocrete Base can be worked using the “fresh on fresh” technique, applying the third coat as soon as the second coat ceases to have “tac.” (when the freshly applied microcement stops adhering to the fingers when touched). The second coat of Monocrete Base applied with this technique should not be sanded. In case of remaining burrs or lumps, these should be removed with the support spatula, removing the protruding material. Apply the third coat working on extruded polystyrene boards. Once the material is dry, make a soft sanding with a roto-orbital sander or with 40 grit sandpaper in order to eliminate imperfections (as soon as it has changed color and is lighter).

Do not apply layers thicker than 1 mm for Monocrete Base, Monocrete Floor and Monocrete Wall microcements. A total system thickness of 1 to 3 mm is recommended.

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

El producto debe almacenarse en su envase original cerrado y resguardado de la intemperie a temperaturas comprendidas entre los 10°C y 30°C, en lugar seco y bien ventilado, lejos de fuentes de calor y de luz solar directa. El tiempo de utilización es de 24 meses desde su fecha de fabricación, conservado adecuadamente.

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 Base L (2 coats): 2.20 kg/m².
- Monocrete Base XL (2 coats): 2.20 kg/m².
- Monocrete Base XXL (2 coats): 2.20 kg/m².

Packaging

Presented in 18 kg packages.

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.