

Monocrete Base.

Monocrete Base is a single-component microcement in powder form. It is designed for the preparation of the substrate prior to the application of the finishing microcements Monocrete Floor and Monocrete Wall. 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 layers, 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 support: 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:
Powdered: 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 cladding (always respect expansion joints).
- Applicable on almost any type of substrate: concrete, cement, ceramic, plaster, plasterboard, etc.
- Excellent workability.
- Wide range of colours and effects.
- High adhesion 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 substrate. Certain applications require specific solutions: flat and flexible fibreglass mesh, Primacrete PLUS or Primacrete ABS adhesion promoters, vapour barriers or Impoxy® rising damp barriers. In any case, follow the recommendations of our technicians.

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

b. Mixing:

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

10 kg Monocrete Base L - 2.2 litres of water

10 kg Monocrete Base XL - 2.1 litres of water

10 kg Monocrete Base XXL - 2.0 litres of water

c. Sealing:

Luxury Concrete® microcements should be sealed after hardening within 24-48 hours. The coating can be sealed when it has a 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 layers:

Apply two layers of Monocrete Base using a metal trowel after coating the surface with the flexible fibre mesh. Before applying a new layer, let the previous one dry and sand gently with a roto-orbital sander and 40-grit sandpaper to remove imperfections.

b. Finishing layers:

The application can be finished with a third layer of Monocrete Base using the "fresco over fresco" technique.

"Fresh on fresh".

Monocrete Base can be worked using the "fresco on fresco" technique, applying the third layer as soon as the second layer ceases to have "tac" (when the newly applied microcement stops sticking to the fingers when touched). The second layer of Monocrete Base applied with this technique should not be sanded. If any burrs or lumps remain, these should be removed with the support spatula, removing the protruding material. Apply the third layer working on extruded polystyrene boards. Once the material is dry, sand gently with a roto-orbital sander or 40-grit sandpaper to remove imperfections (as soon as it has changed colour and is lighter in colour).

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.

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Special precautions

This product contains cement.

- Avoid contact with eyes and skin and avoid inhalation of dust.
- Wear 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 significantly reduce the shelf life and drying time of the product.

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

Keep out of the reach of children.

Storage conditions

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

Product life time

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

Performance

The performance will depend on the substrate to be coated. In a standard application the performance is:

- Monocrete Base L (2 layers): 2.0 kg/m².
- Monocrete Base XL (2 layers): 2.8 kg/m².
- Monocrete Base XXL (2 layers): 3.4 kg/m².

Presentation

It comes in 20 kg packages.

Cleaning of tools

Tools should be washed with water immediately after use. Once the material has hardened, it may only be removed mechanically.