

# Monocrete Floor.

**Monocrete Floor is a one-component microcement in powder for decorative coatings. It has been formulated as a thin, seamless overlay to be installed onto floors and walls. Monocrete Floor is applied in several layers with a trowel, allowing the creation of a wide range of finishes. As part of an application system the surface should be prepared with Monocrete Base and products recommended by Luxury Concrete®.**

**Formulated with hydraulic binders, selected aggregates, synthetic resins and specific additives, Monocrete Floor donly needs the addition of water and pigments.**

**Once mixed, the product obtained can create a coating of 1-3 mm thickness, with high mechanical strength and strong adhesion to any type of substrates: concrete, cement-based mortars, ceramics, MDF, plaster and plasterboard.**



## Technical data

- Type: One-component microcement
- Aspect: White powder
- Maximum aggregate size:  
M 0.18 mm / L 0.20 mm
- Apparent density:  
In powder:  $1.175 \pm 50 \text{ kg/m}^3$   
In paste:  $1.480 \pm 50 \text{ kg/m}^3$   
Hardened:  $1.430 \pm 50 \text{ kg/m}^3$  (28 días)
- Compressive strength (EN 13892-2):  $\geq 40 \text{ N/mm}^2$  (28 days)
- Flexural strength (EN 13892-2):  $\geq 10 \text{ N/mm}^2$  (28 days)
- Adherence resistance (EN 13892-8):  $\geq 1,2 \text{ N/mm}^2$  (28 days)

## Properties

- Continuous decorative coating without fissures (always respect the expansion joints).
- Applicable on countless surfaces: concrete, cement, ceramic, plasterboard, etc.
- Excellent workability.
- Wide range of colours and effects.
- High adhesion to substrates.

## Instructions for use

### a. Preparation or rendering layer:

Before applying microcemento Monocrete Floor 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 planimetric conditions.

### b. Mixing:

Monocrete Floor 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 de Monocrete Floor M- 2,8 litres of water

10 kg de Monocrete Floor L- 2,7 litres of water

### c. The mortar must be prepared as follows:

1. Pour the mixing water in a container; then add the entire load of pigment corresponding to the amount of microcement and microcement and mix until an even, coloured liquid is obtained.
2. Pour the microcement powder gradually into the water while mixing the product with a low speed mixing drill.
3. Mix for at least 2 minutes until a homogeneous, lump-free mixture is obtained.

The better the levelling and preparation of the surface to be coated, the better the performance and the lower the time of installation. It is advisable to choose the suitable method for each application.

## Application

### a. Preparation or rendering layer:

Apply one or two layers of Monocrete Base with a steel trowel depending on the type of surface. On floors always apply two layers and use the flexible fibreglass mesh on floors. Before applying a new layer, the previous one needs to be sanded with a random orbital sander and 40-grit sandpaper to remove irregularities.

### b. Finishing or setting coat:

Apply two layers of Monocrete Floor with a flexible steel trowel or a rubber trowel using one of these techniques:

#### “Fresh on fresh”

Monocrete Floor can be applied with the “fresh on fresh” technique by applying a layer as soon as the previous one is tack-free (non-sticky to the touch). No sanding is required for the first Monocrete Floor when using this technique. Should you find burrs or bumps, smooth them out with a spatula and cut the rough edges. Work on an extruded polystyrene board to apply the following layer. Lightly sand the surface with a random orbital sander or with the 80-grit sandpaper gloves to remove imperfections once the material has dried (once the colour tone changes and intensity becomes lighter).

#### “Fresh on dry”

A layer is applied once the previous one has dried for about 3 hours. Then sand lightly with a random orbital sander or 80-grit sandpaper gloves to remove imperfections.

Do not apply layers thicker than 1 mm of Monocrete Base y Monocrete Floor. We recommend a total thickness of the combined layers of 3 mm.

### c. Sealing:

Luxury Concrete® microcements should be sealed once they have hardened, after 24-48 hours. Sealing shall be done after the coating reaches humidity lower than 5 %, measured with tools designed for this purpose. Luxury Concrete® microcements can be sealed with the primer Primacrete Finish and with water-based varnish Concrete Finish WT. We highly recommend to follow carefully the application instructions of technical datasheet.

## Special precautions

This product contains cement.

- Avoid contact with eyes and skin, as well as powder inhalation.
- Use rubber gloves and safety glasses.
- Apply this product at ambient temperature between 10°C and 30°C.

Both low and high temperatures might vary the pot life and drying times considerably. Empty containers must be disposed of in accordance with current local regulations.

Keep out of the reach of children.

## Storage conditions

The product should be stored in its closed original packaging, protected from weather conditions and at temperatures below 30°C. It be stored in its closed original packaging protected from weather conditions and always between 10°C and 30°C. Shelf life is 24 months from the date of production, if stored in well-preserved conditions.

## Pot life

The Pot life is of 1 hour at about 20°C. It is advisable to mix quantities in accordance with the experience of the applicator.

## Consumption

The performance on prepared surface with Monocrete Base is:

- Monocrete Floor M (2 layers): 1,0 kg/m<sup>2</sup>
- Monocrete Floor L (2 layers): 1,0 kg/m<sup>2</sup>

## Packaging

Available in 18 kg buckets.

## Cleaning of the tools

Tools should be cleaned with water immediately after use. Once the material has hardened, it can only be removed by mechanical means.