

Concrete Base.

Concrete Base is a two component microcement for the preparation of the substrate and is applied in one or two coats before Concrete Wall, Concrete Floor or Concrete Stone.



Properties

- Continuous seamless coating (always respect the expansion joints).
- Applicable on almost any type of substrate: concrete, cement, ceramic, plaster, plasterboard, etc.
- Excellent workability.
- Wide range of colors and effects.
- Matt, satin and gloss finishes.
- High adherence to the support.

Consumption

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

- Concrete Base L (Two coats): 2,00 kg/m²
- Concrete Base XL (Two coats): 2,80 kg/m²
- Concrete Base XXL (Two coats): 3,40 kg/m²

How to use

a. Preparation of the substrate:

Before applying Concrete Base microcement, it is necessary to prepare the surface depending on the conditions of the substrate to be applied. Certain applications require specific solutions: Mesh flat and flexible fiberglass mesh, adhesion promoters Primacrete PLUS or Primacrete ABS, 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:

Concrete Base is mixed with Concrete Resin resin and colorants according to the color selected. To guarantee the properties of the coating, it is essential to respect the ratio between the microcement and the resin:

10 kg of Concrete Base L - 2.5/3.0 liters of Concrete Resin Concrete Resin

10 kg of Concrete Base XL - 3.0 liters of Concrete Resin

10 kg of Concrete Base XXL - 2.5 liters of Concrete Resin

c. Preparation of the mortar:

The mortar should be prepared as follows:

1. Pour a little Concrete Resin into a container, add the entire load of pigment corresponding to the quantity of microcement to be worked with and mix until you obtain a homogeneous colored liquid.
2. Pour the microcement powder and resin gradually while mixing the product with a mechanical mixer of low revolutions.
3. Mix for at least 4 minutes until a homogeneous and lump-free mixture is obtained.

d. Use:

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

Technical Data

Concrete Base L

| | |
|-------------------------------------|---|
| Type | Bicomponent microcement |
| Aspect | White powder |
| Maximum aggregate size | 0,3 mm |
| Apparent density | Powder: $1175 \pm 50 \text{ kg/m}^3$ Plaster: $1480 \pm 50 \text{ kg/m}^3$ Hardened: $1430 \pm 50 \text{ kg/m}^3$ (28 days) |
| Compression resistance (EN 13892-2) | $\geq 50 \text{ N/mm}^2$ (28 days) |
| Flexural strength (EN 13892-2) | $\geq 10 \text{ N/mm}^2$ (28 days) |
| Adhesion resistance (EN 13892-8) | $\geq 1,5 \text{ N/mm}^2$ (28 days) |
| Fire resistance (EN 13501-1) | B _{FL} s1 |

Concrete Base XL

| | |
|-------------------------------------|---|
| Type | Bicomponent microcement |
| Aspect | White powder |
| Maximum aggregate size | 0,4 mm |
| Apparent density | Powder: $1175 \pm 50 \text{ kg/m}^3$ Plaster: $1480 \pm 50 \text{ kg/m}^3$ Hardened: $1430 \pm 50 \text{ kg/m}^3$ (28 days) |
| Compression resistance (EN 13892-2) | $\geq 50 \text{ N/mm}^2$ (28 days) |
| Flexural strength (EN 13892-2) | $\geq 10 \text{ N/mm}^2$ (28 days) |
| Adhesion resistance (EN 13892-8) | $\geq 1,5 \text{ N/mm}^2$ (28 days) |
| Fire resistance (EN 13501-1) | B _{FL} s1 |

Concrete Base XXL

| | |
|-------------------------------------|---|
| Type | Bicomponent microcement |
| Aspect | White powder |
| Maximum aggregate size | 0,6 mm |
| Apparent density | Powder: $1175 \pm 50 \text{ kg/m}^3$ Plaster: $1480 \pm 50 \text{ kg/m}^3$ Hardened: $1430 \pm 50 \text{ kg/m}^3$ (28 days) |
| Compression resistance (EN 13892-2) | $\geq 50 \text{ N/mm}^2$ (28 days) |
| Flexural strength (EN 13892-2) | $\geq 10 \text{ N/mm}^2$ (28 days) |
| Adhesion resistance (EN 13892-8) | $\geq 1,5 \text{ N/mm}^2$ (28 days) |
| Fire resistance (EN 13501-1) | B _{FL} s1 |

Application

a.Preparation layers:

Depending on the type of application substrate, apply one or two coats of Concrete Base XL by metal trowel. On the floor, always apply two coats with the very flexible fiber mesh. Before applying a new coat, 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 may be finished with a third coat of Concrete Base XL or XXL employing the "fresh on fresh" technique. In pavements it is possible to use Concrete Floor applied in two coats. Concrete Wall microcement finish will be used exclusively on walls and non-trafficable surfaces.

"Fresh on fresh".

Concrete Base L, XL or XXL can be worked using the "fresh on fresh" technique, applying the next coat as soon as the first coat ceases to have "tack" (when the freshly applied microcement stops adhering to the fingers when touched). The second coat of Concrete Base L, XL or XXL applied with this technique should not be sanded. If burrs or lumps remain, they should be removed with the backer trowel, removing any 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 40 grit sandpaper in order to eliminate imperfections (as soon as it has changed its tone and is lighter).

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

c.Sealing:

Luxury Concrete® microcements should be sealed once hardened, between 24 and 48 hours. Never before the coating has reached a moisture content of less than 5%, measured with instruments designed for this purpose.

Luxury Concrete® microcements can be sealed with Primacrete Finish primer and Concrete Finish water-based varnish. We recommend scrupulously following the application instructions in the technical data sheets.

Packaging

Concrete Base L, XL y XXL

- It is available in 20 kg buckets.

Pot- life

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

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 or higher than 30°C.

Low temperatures lengthen and high temperatures reduce significantly the lifetime of the product and the drying.

Empty containers should be disposed of in accordance with current legislation. To prevent the product from drying out or thickening, close the lid after each use. Keep out of the reach of children.

Cleaning of the tools

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

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.