LUXURY CONCRETE

Concrete Floor.

Concrete Floor is a low thickness coating for floors and walkable surfaces, with a natural and uniform result. The substrate must be prepared with Concrete Base and protected with Concrete Finish sealers.

Properties

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

Consumption

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

- Concrete Floor M/L (two layers): 1 kg/m^2

How to use

a. Preparation of the substrate
Before applying Concrete Floor microcement, it is necessary to prepare the surface with Concrete Base. The application substrate must be clean and free of grease, the base must be consolidated and in good planimetric conditions.

b. Mixing:
Concrete Floor is mixed with Concrete 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 Floor (M/L) – 3,0 / 3,5 liters of resin Concrete Resin

c. Preparation of the mortar:
The mortar should be prepared as follows:
1. Pour a little 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

- Type: Bicomponent microcement
- Aspect: White powder
- Maximum aggregate size:
  M: 0,6 mm / L: 0,2 mm
- Apparent density:
  Powder: 1175 ± 50 kg/m^3
  Plaster: 1505 ± 50 kg/m^3
  Hardened: 1390 ± 50 kg/m^3 (28 days)
- Compression resistance (EN 13892-2):
  >35 N/mm^2 (28 days)
- Flexural strength (EN 13892-2):
  >10 N/mm^2 (28 days)[3]
- Concrete adhesion:
  >1,2 N/mm^2 (28 days)
- Slipping resistance (EN 12633:2003): USRV Rd= 25 Class 1
- Fire reaction: BFL s1

Aplication

a. Preparation layers:
Depending on the type of application substrate, apply one or two layers of Concrete Base by metal trowel. On the floor, always coat with two layers and very flexible Mesh fiber 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:
Apply two layers of Concrete Stone by spreading it with the aid of a steel Bi-Flex trowel, using one of the two techniques below:

"Fresh on fresh"
Concrete Floor can be worked using the "fresh on fresh" technique, applying the next layer as soon as the first layer ceases to have "tack" (when the freshly applied microcement stops sticking to the fingers when touched). This first layer of Concrete Floor does not require sanding. If burrs or lumps remain, these should be removed with the support spatula, removing the protruding material. Apply the next layer 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).

"Fresh on dry"
Before applying a new layer, let the previous one dry (about 3 hours) and make a soft sanding with roto-orbital sander or 40 grit sandpaper in order to remove imperfections.

Do not apply layers thicker than 1 mm for Concrete Base, Concrete Floor 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

It is available in 20 kg buckets.

Pot-life

The pot-life of the product is 1 hour at about 20ºC. 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 10ºC or higher than 30ºC.

Low temperatures lengthen and high temperatures reduce significantly the life time 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 10ºC and 30ºC, 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.