

Concrete Base is a two component microcement in powder. Designed to prepare the support before applying Concrete Floor and Concrete Wall which are the different finishes. It has been developed to be applied as a low-thickness continuous coating onto floors and walls. Luxury Concrete® microcements are applied with the trowel in different layers and permit a great variety of finishes. As part of the application system the substrate should be prepared with Concrete Base and the products recommended by Luxury Concrete®. The microcement coating should be protected with waterbased polyurethanes after applying a resin based porefiller or they can be protected by solvent based polyurethanes.

Formulated with hydraulic binders, selected aggregates, and specific additives, Concrete Base (component A in powder) has to be mixed with our resin Concrete Resin (component B liquid) in accordance with the proportions given in this datasheet to assure its' properties.

After mixing, it allows to create a coating of low thickness of 1-3 mm, with high mechanical resistance and strong adhesion on any type of support: concrete, cementitious mortars, ceramic, MDF, plaster and plasterboard that are prepared correctly.



HOW TO USE

a. Preparation of the support:

Before applying Concrete Base it is necessary to prepare the surface depending on the conditions of the support. Certain applications require specific solutions: glass fibre mesh and flexible, adhesion promoters, vapour barriers or barriers for rising damp. In any case follow the recommendations of our technicians.

The support should be clean, free of grease, and must be consolidated and in good condition of planimetry. Due to its high adhesion to all kinds of supports, usually does not need priming, but under specific conditions and to facilitate the application of the first coat, we recommend the use of adhesion promoters.

b. Mixing:

It is necessary to add Concrete Resin and pigments in the given proportions. For the characteristics of the coating it is necessary to respect the proportion between microcement and resin.

- 10 kg de Concrete Base L – 2,5/3,0 litres Concrete Resine
- 10 kg de Concrete Base XL – 3,0 litres Concrete Resine
- 10 kg de Concrete Base XXL – 2,5 litres Concrete Resine

c. Preparation of the mortar:

The mortar should be prepared as follows:

Pour some Concrete Resin in a container, add the entire amount of pigment corresponding to the amount of microcement that is going to be applied and mix until you obtain a homogeneous liquid.

Pour the microcement powder in the coloured resin gradually while mixing the product with a low speed mechanical stirrer.

Mix for 3 to 4 minutes until you have a smooth mixture free of lumps.

d. Consumption:

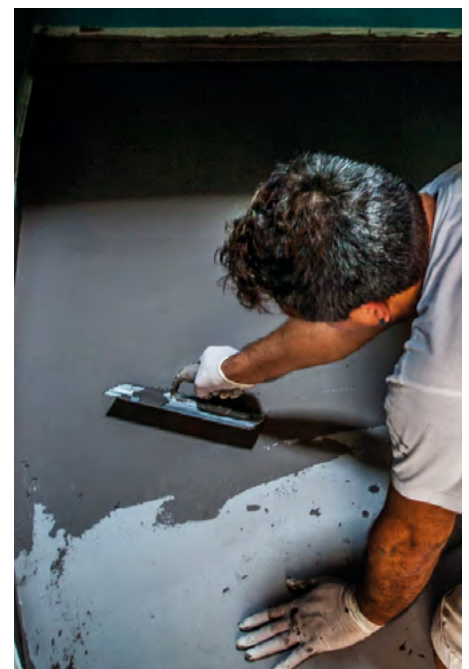
Consumption will depend on the support to be coated. In a standard application consumption is as follows:

- Concrete Base L (2 layers) – 2,00 kg/m²
- Concrete Base XL (2 layers) – 2,80 kg/m²
- Concrete Base XXL (2 layers) – 3,4 kg/m²

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

PROPERTIES

- Seamless continuous coating (always respect expansion joints).
- Applicable on any medium: cements, ceramics, plaster, concrete, plasterboard.
- Excellent workability.
- Wide variety of colours and effects.
- Matt, Satin and glossy finishes.
- High adhesión to the support.



APPLICATION

a. Preparation layers:

Depending on the type of support, apply one or two coats of Concrete Base using a metal trowel. Applications on floors always apply two layers and use the fiber mesh. After each layer let it dry and sand using an orbital Sander with sandpaper grain 40, in order to eliminate imperfections.

b. Finishing layers:

The application can be finished with a third layer of Concrete Base using the "fresh on fresh" technique. On floors we recommend Concrete Floor applied in two coats. And Concrete Wall is to be used exclusively on walls.

"fresh on fresh"

Concrete Base can be applied using the technique "fresh on fresh", applying the third layer as soon as the second stops having "tac" (when the applied microcement stops adhering to the fingers when touching it). The second layer of Concrete Base applied with this technique should not be sanded. In case of imperfection these can be removed with a spatula. On floors apply the third layer working on extruded polystyrene boards. Soft sanding with an orbital Sander or by hand with sandpaper grain 40. This in order to eliminate imperfections as soon as the material dries (when it changes color and is lighter).

Do not apply layers of Concrete Base, Concrete Floor and Concrete Wall of more than 1 mm thickness.

For the total thickness of the application we recommend from 1 to 3 mm.

POT-LIFE

Pot-life is about 1 hour at 20°C
We suggest preparing batches according to the experience of the applicator.

SEALING

Luxury Concrete Microcements should be sealed once dry after 24 to 48 hours with water based or solvent based sealers recommended by us. We recommend to carefully following the advice on application given in the technical data sheets.

CLEANING OF THE TOOLS

The tools should be cleaned with clean water immediately after using. After hardening of the microcement on the tools it can only be removed by mechanical means.

FIELD OF APPLICATION

Decorative mortar for walls and floors of commercial and residential. Interior or exterior spaces. Structural expansion joints must always be respected.

TECHNICAL DATA

	Base L	Base XL	Base XXL
Type: Two component Microcement			
Appearance: White Powder			
Apparent density:	Powder	1175 ± 50 kg/m ³	1175 ± 50 kg/m ³
	mortar	1480 ± 50 kg/m ³	1480 ± 50 kg/m ³
	hardened (28 days)	1430 ± 50 kg/m ³	1430 ± 50 kg/m ³
Maximum size of aggregate:	0,3 mm	0,4 mm	0,6 mm
Resistance to compression (EN 13892-2):	28 days: ≥ 50 N/mm ²	28 days: ≥ 50 N/mm ²	28 days: ≥ 50 N/mm ²
Resistance to flexion (EN 13892-2):	28 days: ≥ 10 N/mm ²	28 days: ≥ 10 N/mm ²	28 days: ≥ 10 N/mm ²
Resistance to adhesion (EN 13892-8):	28 days: ≥ 1,5 N/mm ²	28 days: ≥ 1,5 N/mm ²	28 days: ≥ 1,5 N/mm ²
Reaction to fire (EN 13501-1):	BFL s1	BFL s1	BFL s1

SPECIAL PRECAUTIONS

Avoid contact with eyes and skin, as well as inhalation of dust. Low temperatures lengthen and high temperatures reduce considerably its' pot-life and drying times.

- Use rubber gloves and safety glasses.
- Keep out of reach of children.
- Do not apply the product at room temperature less than 10 ° C or above 30 ° C.
- Empty containers must be disposed of in accordance with current legal regulations.



STORAGE CONDITIONS

The products of Luxury Concrete should be stored in their closed original packaging, sheltered from the weather at temperatures between 10°C and 30°C in a dry and well ventilated place, away from direct heat and sunlight. Shelf life is 1 year from the date of manufacturing, if stored correctly.

The product should not be used for purposes other than those specified without first having instructions in writing. It is always the user's responsibility to take suitable measures in order to comply with the requirements established in local legislation. Product safety sheets are available for professionals. This technical data sheet will be valid until a new edition appears.

PACKAGING

Presented in buckets of 20 kg.

