LUXURY CONCRETE

Limecrete.

Limecrete is a two-component lime-based microcement that stands out for its natural finish. Continuous low-thickness coating that does not crack thanks to its minimal shrinkage. It gives the substrate greater workability and mechanical resistance.

Characteristics

- Continuous seamless coating (always respect expansion joints).
- Applicable on almost any type of substrate: concrete, cement, ceramic, plaster, drywall, etc.
- Excellent workability.
- Wide range of colours and effects.
- Matt, satin and gloss finishes.
- High adhesion to the substrate.
- Handmade finish.
- High hardness.

Consumption

Consumption depends on the substrate to be coated. In a standard application the coverage is:
Limecrete Extra – (Two coats): 2 kg/m^2
Limecrete Basic – (Two coats): 1,4 kg/m^2
Limecrete Medium – (Two coats): 1 kg/m^2
Limecrete Thin – (Two coats): 0,5 kg/m^2

Instructions for use

Preparing the substrate

Before applying microcemento Limecrete, it is necessary to prepare the surface according to the conditions of the substrate to be applied. Some applications require specific solutions: Mesh flat and flexible fibreglass mesh, adhesion promoters such as Limecrete Plus or Limecrete ABS, vapour barriers or rising damp barriers Impoxy. In all cases follow the recommendations of our technicians.
The substrate must be clean and free of grease, the base must be consolidated and in good level condition.

Mixing

Limecrete is mixed with Concrete Resin and dyes according to the selected colour.
To guarantee the properties of the coating, it is essential to respect the ratio between the microcement and the resin:
20 kg de Limecrete Extra – 6 L of Concrete Resin
20 kg de Limecrete Basic – 6,6 L of Concrete Resin
18 kg de Limecrete Medium – 6,6 L of Concrete Resin
15 kg de Limecrete Thin – 6,4 L of Concrete Resin

Preparation of the mortar

The mortar should be prepared as follows:

1. Pour the Concrete Resin into a container, add the entire load of pigment corresponding to the quantity of microcement to be worked with and mix until a homogeneous colour liquid is obtained.

2. Pour the microcement powder gradually while mixing the product with a low speed mechanical mixer.

3. Mix for at least 4 minutes until a homogeneous, lump-free mixture is obtained.

Consumption

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

Technical data

Limecrete Extra

Type	Two-component microcement
Appearance	White powder
Maximum aggregate size	0,4 mm
Bulk density	In powder form: 1175 ± 50 kg/m^3 In paste: 1480 ± 50 kg/m^3 Hardened: 1430 ± 50 kg/m^3 (28 days)
Compressive strength (EN 13892-2)	≥60 N/mm^2 (28 days)
Flexural strength (EN 13892-2)	≥10 N/mm^2 (28 days)
Adhesion strength (EN 13892-8)	≥1,5 N/mm^2 (28 days)
Reaction to fire (EN 13501-1)	B_{FL} s1

Limecrete Basic

Type	Two-component microcement
Appearance	White powder
Maximum aggregate size	0,3 mm
Bulk density	In powder form: 1175 ± 50 kg/m^3 In paste: 1480 ± 50 kg/m^3 Hardened: 1430 ± 50 kg/m^3 (28 days)
Compressive strength (EN 13892-2)	≥60 N/mm^2 (28 days)
Flexural strength (EN 13892-2)	≥10 N/mm^2 (28 days)
Adhesion strength (EN 13892-8)	≥1,5 N/mm^2 (28 days)
Reaction to fire (EN 13501-1)	B_{FL} s1

Limecrete Medium

Type	Two-component microcement
Appearance	White powder
Maximum aggregate size	0,2 mm
Bulk density	In powder form: 1175 ± 50 kg/m^3 In paste: 1450 ± 50 kg/m^3 Hardened: 1390 ± 50 kg/m^3 (28 days)
Compressive strength (EN 13892-2)	≥45 N/mm^2 (28 days)
Flexural strength (EN 13892-2)	≥10 N/mm^2 (28 days)
Adhesion strength (EN 13892-8)	≥1,2 N/mm² (28 days)
Reaction to fire (EN 13501-1)	B_{FL} s1

Limecrete Thin

Type	Two-component microcement
Appearance	White powder
Maximum aggregate size	0,1 mm
Bulk density	In powder form: 930 ± 50 kg/m^3 In paste: 1420 ± 50 kg/m^3 Hardened: 1310 ± 50 kg/m^3 (28 days)
Compressive strength (EN 13892-2)	≥32 N/mm^2 (28 days)
Flexural strength (EN 13892-2)	≥7 N/mm^2 (28 days)
Adhesion strength (EN 13892-8)	≥1,2 N/mm² (28 days)
Reaction to fire (EN 13501-1)	B_{FL} s1

Application

Preparation coats

Depending on the type of substrate to be applied, apply one or two coats of Limecrete Extra or Limecrete Basic with a metal trowel. On floors, apply , before the first coat, Mesh flexible fibre mesh and then apply two coats of microcement.
Between coats, let the previous one dry for 4 hours and sand gently with a rotoorbital sander and 40-grit sandpaper, in order to eliminate imperfections.

Finishing coats

The application can be finished with two coats of Limecrete Medium or Limecrete Thin . Between coats, allow the previous one to dry for 4 hours and sand gently with a rotoorbital sander and 40 grit sandpaper to remove imperfections. The microcement Limecrete Thin finish is for exclusive use on walls and non-trafficable surfaces.

“Fresh on fresh”

Limecrete can be worked using the “ fresh on fresh “ technique, applying the third coat as soon as the second coat no longer has a “tac” (when the freshly applied microcement stops sticking to the fingers when touched). The second coat of Limecrete applied with this technique should not be sanded. If burrs or lumps remain, these should be smoothed out with the spatula, removing any protruding material. Apply the third coat working on extruded polystyrene boards. Once the material is dry, carry out sanding with a roto-orbital sander or 40-grit sandpaper to remove imperfections (as soon as the material has changed colour and is lighter in colour).

Do not apply layers thicker than 1 mm for Limecrete microcements. A total system thickness of 1 to 3 mm is recommended.

Sealing

Luxury Concrete microcements should be sealed after hardening 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 Concrete Finish water-based primer and Concrete Finish WT water-based varnish. We recommend scrupulously following the application advice in the technical data sheets.

Packaging

It is packaged in containers of 20 kg:
Limecrete Extra, Limecrete Basic,
It is packaged in containers of 18 kg
Limecrete Medium
It is packaged in containers of 15 kg:
Limecrete Thin

Cleaning of tools

Tools should be washed with soap and water immediately after use.

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 below 10ºC or above 30ºC.
- Low temperatures extend and high temperatures significantly reduce the shelf life of the product and the drying time of the product.
- Empty containers must be disposed of in accordance with current legal regulations.
- To prevent the product from drying out or thickening, close the lid after each use.
- Keep out of the reach of children.

Storage conditions

It should be stored in its original closed packaging and protected from the weather at temperatures between 10ºC and 30ºC, 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 stored properly.