

Concrete Stone.

Concrete Stone is our solution for exteriors, with increased mechanical and abrasion resistance, as well as anti-slip properties without the need for any further treatment.

The substrate is prepared with a layer of Concrete Base, and must be protected with the Concrete Finish line.



Properties

- Continuous seamless coating (always respect the expansion joints).
- Applicable on almost any type of support: concrete, cements, ceramics, plaster, plasterboard, etc.
- Excellent workability.
- Wide range of colors and effects.
- Matt, satin and gloss finishes.
- High adherence to the substrate.
- Greater mechanical and abrasion resistance than Concrete Floor.
- Anti-slip properties without the need of any subsequent treatment.

How to use

a. Preparation of the substrate:

Before applying Concrete Stone microcement it is necessary to prepare the surface with Concrete Base. The substrate must be clean and free of grease.

The base must be consolidated and in good conditions of planimetry.

b. Mixing:

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

10 kg of Concrete Stone L - 2.8 - 3.0 liters of Concrete Resin

10 kg of Concrete Stone XL-2.7 - 3.0 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 pigment load corresponding to the amount of microcement to be worked with and mix until a homogeneous colored liquid is obtained.

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. Consumption:

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

Consumption

The performance on surface prepared with Concrete Base is as follows:

- Concrete Stone L/XL (Two coats): 2.00 kg/m².

Technical data

- Type: Two-component microcement
- Appearance: White powder
- Maximum aggregate size:
L: 0.20 mm / XL: 0.40 mm
- Apparent density:
In powder form: 1175 ± 50 kg/m³
In paste: 1480 ± 50 kg/m³
Hardened: 1430 ± 50 kg/m³ (28 days)
- Compressive strength (EN 13892-2):
>45 N/mm² (28 days)
- Flexural strength (EN 13892-2):
>11 N/mm² (28 days)³.
- Adhesion to concrete:
>1.5 N/mm² (28 days)³
- Slip resistance (EN 12633:2003):
USRV Rd= 55 Class 3
- Reaction to fire: BFL s1

Application

a. Preparation coats:

Apply one coat of Concrete Base by metal trowel with fiber mesh. Let dry and make a soft sanding with a roto-orbital sander and 40 grit sandpaper in order to eliminate imperfections.

b. Finishing coats:

Apply two coats of Concrete Stone by spreading with the aid of a steel BiFlex trowel, using one of the two techniques that follow:

“Fresh on fresh”.

Concrete Stone can be worked using the “fresh on fresh” technique, applying the following coat as soon as the first coat is no longer “tac (when the freshly applied microcement no longer adheres to the fingers when touched). This first coat of Concrete Stone does not require sanding. If burrs or lumps remain, they should be removed with the backer trowel, removing any protruding material. Apply the next coat working on extruded polystyrene boards. Once the material is dry, carry out a sanding with a roto-orbital sander or 40-grit sandpaper in order to remove imperfections (as soon as it has changed color and is lighter).

“Fresh on dry”.

Before applying a new coat, allow the previous one to dry (about 3 hours) and sanding with a roto-orbital sander or 40-grit sandpaper to remove imperfections.

A total system thickness of 3 to 4 mm is recommended.

c. Sealing:

Luxury Concrete® microcements should be sealed after hardening, within 24 to 48 hours. Never before the coating has reached a touching it). This first coat of Concrete Stone does not require sanding. If burrs or lumps remain, they should be removed with the backer trowel, removing any protruding material. Apply the next coat working on extruded polystyrene boards. Once the material is dry, carry out a sanding with a roto-orbital sander or 40-grit sandpaper in order to remove imperfections (as soon as it has changed).

Application field

Mortar for coating vertical walls and non-trafficable horizontal surfaces of commercial and residential interior or exterior, dry or damp.

Packaging

Available in 20 kg packages.

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 considerably the life time of the product and the drying time.

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.

Pot life of the product

The pot-life of the product is 1 hour at about 20°C.

We recommend according to the applicator's experience.

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.

Cleaning of tools

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.