



EVOLUTION MICROFINO

EVOLUTION MICROBASE Microcement for surface preparation



Evolution Microbase is a One-component microcement in powder form. Designed for surface preparation before applying finishing microcements Evolution Microdeck and Evolution Microfino. It has been formulated to be applied as a low-thickness continuous coating onto floors and walls. Topciment® microcement is applied in several layers with a trowel, allowing the creation of a wide range of finishes. As part of an application system the surface should be prepared and with Evolution Microbase with products recommended by Topcimen®.

It is formulated of hydraulic binders, selected aggregates, synthetic resin and specific additives. Evolution Microbase only needs the addition of water and pigments.

Once mixed, the obtained product can create a coating of 1-3 mm, with high mechanical strength and strong adhesion to any type of substrates: concrete, cement-based mortars, ceramic, MDF, plaster and drywall as long as they are correctly prepared.

Properties

- Continuous decorative coating without fissures (always respect the expansion joints).
- Applicable on countless surfaces: concrete, cement, ceramic, plasterboard, etc.
- Excellent workability.
- Wide range of colours.
- Finishes: matt, satin and gloss .
- High adhesion to substrates.

Recommendations for use

a. Surface preparation:

Before applying Evolution Microfino microcement it is necessary to prepare the surface with Evolution Microbase. The application substrate must be clean and free of grease, the base must be consolidated and in good planimetric conditions.

The surface should be free of dust and grease, well consolidated and in good flatness.

b. Mix:

Evolution Microbase only needs the addition of clean water and specific colorants, at room temperatures from 10 °C to 20°C. It is essential to respect the water-microcement ratio to ensure the product properties.

10kg of Evolution Microbase L– 2.20 litres of water
10kg of Evolution Microbase XL– 2.10 litres of water
10kg of Evolution Microbase XXL– 2.00 litres of water

c. Mortar preparation:

The mortar must be prepared as follows:

1. Pour the mixing water in a container; then add the entire load of pigment corresponding to the amount of microcement and microcement and mix until an even, coloured liquid is obtained.
2. Pour the microcement powder gradually into the water while mixing the product with a low speed mixing drill.
3. Mix at least 4 minutes until a smooth mixture free of lumps is obtained.

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

Consumption

The performance will depend on the surface to be applied. In a standard application the performance is:

- Evolution Microbase L (2 coats): 2,20 kg/m²
- Evolution Microbase XL (2 coats): 2,20 kg/m²
- Evolution Microbase XXL (2 coats): 2,20 kg/m²

Technical data

- Type: One-component microcement
- Appearance: White powder
- Maximum size of the aggregates:
 - L: 0,3 mm / XL: 0,4 mm / XXL: 0,6 mm
- Apparent density:
 - In powder: 1175 ± 50 kg/m³
 - In mortar: 1545 ± 50 kg/m³
 - Hardened: 1470 ± 50 kg/m³ (28 days)
- Compressive strength (EN 13892-2): ≥ 42 N/mm² (28 days)
- Flexural strength (EN 13892-2): ≥ 11,9 N/mm² (28 days)
- Adherence strength (EN 13892-8): ≥ 1,99 N/mm² (28 days)

Application

a. Application layers:

Apply one or two layers of Evolution Microbase with a steel trowel depending on the type of surface. On floors always apply two layers and use the flexible fibreglass mesh Builtex. Before applying a new layer, the previous one needs to be sanded with a random orbital sander and with a 40-grit sandpaper to remove irregularities.

b. Finishing or setting coat:

Apply two coats of Evolution Microfino by spreading it with the help of a Bi-Flex rubber trowel. Flex rubber trowel, using one of the two techniques below:

“Fresh on fresh”

Evolution Microfino can be worked using the “fresh on fresh” technique, applying the next coat as soon as the first coat no longer has a “tac” (when the freshly applied (when the freshly applied microcement no longer sticks to the fingers when touched). This first coat of Evolution Microfino does not require sanding. If any burrs or lumps remain, they should be removed with a spatula. If there are any burrs or bumps, these should be removed with the spatula, removing any protruding material. Apply the next layer working on extruded polystyrene boards. Once the material is dry, sand gently with a roto-orbital sander or 220 grit sandpaper in order to remove any imperfections (as soon as the material is dry). remove imperfections (as soon as it has changed colour and is lighter).

“Fresh on dry”

Before applying a new coat, allow the previous one to dry (about 3 hours) and carry out a gentle sanding with roto-orbital sander or 220 grit sandpaper in order to remove imperfections.

Do not apply coats thicker than 1 mm for Evolution Microbase and Evolution Microbase and Evolution Microbase. Microbase and Evolution Microfino. A total system thickness of 1 to 3 mm system thickness is recommended.

c. Sealing:

Topciment® microcements should be sealed once hardened between 24 and 48 hours. The coating can be sealed when it has a moisture content of less than 5 %. is carried out with instruments designed for this purpose. Topciment® microcements can be sealed with Presealer pore sealer primer and Topsealer® WT. We recommend scrupulously following the application advice in the technical data sheets.

Special precautions

This product contains cement.

- Avoid contact with eyes and skin, as well as powder inhalation.
- Use rubber gloves and safety glasses.
- Apply this product at ambient temperature between 10°C and 30°C.

Both low and high temperatures might vary the pot life and drying times considerably. Empty containers must be disposed of in accordance with current local regulations. Keep out of the reach of children.

Packaging

Available in 15 kg buckets.

Cleaning of the tools

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

Pot life

The Pot life is of 1 hour at about 20°C. It is advisable to mix quantities in accordance with the experience of the applicator.

Storage conditions

The product should be stored in its closed original packaging, protected from weather conditions at temperatures between 10°C and 30°C, in a dry and well ventilated place away from direct heat and sunlight. Shelf life is 24 months from the date of production, if stored in well-preserved conditions.



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.

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