

EVOLUTION MICROBASE

Microcement for surface preparation



Evolution Microbase MN is a one-component microcement in powder form. Designed for surface preparation before applying finishing microcements **Evolution Microdeck MN** and **Evolution Microfino MN**. 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 MN** with products recommended by Topciment.

It is formulated of hydraulic binders, selected aggregates, synthetic resin and specific additives. **Evolution Microbase MN** 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:

Prior to the application of Evolution Microbase MN it is necessary to prepare the surface depending on the conditions of the support to be coated. Some coatings require specific solutions like the flat and flexible fibreglass mesh Builtex, adhesion promoters such as Primacem PLUS or Primacem ABS, and vapour barriers or barriers against capillary rising damp, like Improxy. In all cases please follow the recommendations of our technicians.

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

b. Mix:

Evolution Microbase MN 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 MN – 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.

d. Consumption:

The consumption depends on the surface. In a standard application it would be as follows:

Evoluttion Microbase MN (2 layers) – 2.20 kg / m²

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.

Technical data

Type:	One component microcement
Appearance:	White powder
Maximum size of the aggregates:	0.5 mm
Apparent density:	In powder – 1175 ± 50 kg/m ³
	In mortar – 1545 ± 50 kg/m ³
	Hardened – 1470 ± 50 kg/m ³ (28 days)
Compressive strength (EN 13892-2):	28 days: ≥ 30 N/mm ²
Flexural strength (EN 13892-2):	28 days: ≥ 10 N/mm ²
Adherence strength (EN 13892-8):	28 days: ≥ 1.5 N/mm ²
Fire resistance (EN 13501-1):	B _{FL} s1

Application

a. Application layers:

Apply one or two layers of Evoluttion Microbase MN 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:

The application can be finished with a third coat of Evoluttion Microbase MN using the “fresh on fresh” technique. Evoluttion Microdeck MN can be installed onto floors in two layers and Evoluttion Microfino MN is used exclusively onto walls and non-trafficable surfaces.

“Fresh on Fresh”

Evoluttion Microbase MN can be applied with the “fresh on fresh” technique by installing the third coat as soon as the second one is tack-free (non-sticky to the touch). No sanding is required for the second layer of Evoluttion Microbase MN when using this technique. Should you find burrs or bumps, smooth them out with a spatula and cut the rough edges. Work on an extruded polystyrene board to apply the following layer. Lightly sand the surface with a random orbital sander or with the 40-grit sandpaper gloves to remove imperfections once the material has dried (once the colour tone changes and intensity becomes lighter).

Do not apply layers of Evoluttion Microbase MN, Evoluttion Microdeck MN and Evoluttion Microfino MN thicker than 1 mm. We recommend a total thickness of the combined layers of 3 mm.

c. Sealing:

Topciment microcements should be sealed once they have hardened, after 24-48 hours. Sealing shall be done after the coating reaches humidity lower than 5 %, measured with tools designed for this purpose.

Topciment microcements can be sealed with the primer Presealer and with water-based varnish Topsealer WT. We highly recommend to follow carefully the application instructions of technical datasheet.

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 20 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 1 year from the date of production, if stored in well-preserved conditions.



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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.

Last updated: January 2020