



EVOLUTION



MICRODECK M

Product description

Monocomponent microcement for continuous low-thickness coatings on floors and walls for decorative finishes.

Uses

The system is presented as a high-performance continuous cladding, suitable for application on floors, vertical surfaces, stairs, ceilings and even furniture elements. Its high functional and aesthetic versatility makes it an ideal solution both for residential projects and for interventions in commercial spaces, large-scale facilities such as sports centres, industrial warehouses and intensive use environments such as hotels and catering establishments.

Properties

- Continuous cladding: Monolithic system without cracks, provided that the existing structural expansion joints are respected.
- Application thickness: Between 1 and 3 mm, which allows a low thickness finish without compromising mechanical performance.
- Excellent workability: It is easy to apply by hand, allowing a uniform and controlled finish.
- Aesthetic versatility: Available in a wide variety of colours and decorative finishes.
- Multi-substrate compatibility: Applicable on most horizontal and vertical surfaces, both indoors and outdoors.
- High mechanical performance: High compressive and flexural strength, with excellent adhesion on substrates such as concrete, cementitious mortars, ceramics, MDF panels, plaster and plasterboard.
- Abrasion resistance: Very good wear resistance, especially in coarse-grained formulations.

Description

Topciment offers three categories of EVOLUTION Microcement according to its application, within which two main groups can be distinguished: As preparation EVOLUTION Microbase, before applying the finishing layers, which are EVOLUTION Microfino or Microdeck, depending on the required purpose: floors, walls, stairs...

Classification of Topciment microcements according to granulometry and recommended application.

EVOLUTTION	TYPE	GRANULOMETRY (mm)	Recommended APPLICATION
MICROBASE	L	0.3	Preparation
	XL	0.4	
	XXL	0.6	
MICROFINE	S	0.125	Wall finishing
	M	0.18	
MICRODECK	M	0.18	Interior floor finishing
	L	0.2	

Technical data

PROPERTIES POWDER COMPONENT A	SPECIFICATION	UNIT
Features	Dust	
Composition	Cement, additives and selected aggregates	
Maximum Aggregate Size	0.18	mm
Apparent density in powder form	1175±50	Kg/m ³

PROPERTIES MIXTURE A+B (Component B water)	TYPE	UNITS
	MICRODECK M	
Mixing ratio	10Kg Microdeck M per 3.2 L water	
Performance two layers	1	Kg/m ²
Paste apparent density	1480±50	Kg/m ³
Apparent density hardened	1430 ±50	Kg/m ³
Pot life at 20°C (pot life)	60	min.
Minimum drying time between layers	4	hours
Number of layers	2	
System thickness	1-3	mm
Trowel type (material)	Flexible Steel	
Sandpaper grit	80	
Application temperature	5-30	°C
Air humidity	65-90	%

Certificates: Declared performance CE marking

EN 13813:2002	XL	UNITS
Flexural Strength 28 days (EN 13892-2)	55.1	Mpa
Compressive strength 28 days (EN-13892-2)	13.9	Mpa
Adhesion resistance (EN 13892-8)	>1.2	Mpa
Fire performance (EN13501-1)	Bfl-s1	

1.1. Preparation of the substrate.

The application substrate must be clean and free of grease, the base must be consolidated and in good planimetric condition

1.2. Primer.

Prior to the application of EVOLUTTION Microbase microcement, it is essential to carry out an adequate preparation of the substrate, adapted to its specific conditions. Depending on the type and condition of the substrate, particular technical solutions may be required, such as the incorporation of Builtex flat and flexible fibreglass mesh for structural reinforcement, the use of Primacem® PLUS primers on non-absorbent surfaces or Primacem® ABS on absorbent surfaces, as well as the application of barriers against rising damp or vapour using Primapox® Barrier.

In any case, it is recommended to apply the microcement when the primer still has tack (tackiness to the touch) to ensure optimum adhesion. If the primer cures completely and loses its tack (especially in the case of epoxy primers), adhesion is reduced and peeling may occur. If the primer is already dry, it is necessary to sand the surface before applying the microcement to recover the anchorage.

In all cases, the technical advice provided by our specialists must be strictly followed and the relevant product data sheets must be consulted.

1.3. Kneaded.

EVOLUTTION is mixed with water and dyes according to the colour selected. To guarantee the properties of the coating, it is essential to respect the ratio between microcement and water (see table).

The mortar should be prepared as follows:

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

2. Pour the microcement powder into the water 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.

The pot-life of the product is 1 hour at approx. 20°C. We recommend mixing according to the applicator's experience.

1.4. Mortar application.

a. Preparation layers:

Depending on the type of substrate, apply one or two layers of EVOLUTTION Microbase XXL using a metal trowel. On the floor, always apply two layers with Builtex highly flexible fibre mesh. Before applying a new layer, let the previous one dry and sand gently with a roto-orbital sander and 40-grit sandpaper to remove imperfections.

b. Finishing layers:

Apply two layers of Evoluttion Microfino by spreading it with the help of a Bi-Flex rubber trowel using one of the two techniques below:

"Fresh on fresh".

EVOLUTTION can be worked using the "fresco on fresco" technique, applying the next layer as soon as the previous layer stops "tacking" (i.e. when the newly applied microcement stops sticking to the fingers when touched). In this case, the first layer of EVOLUTTION applied with this technique should not be sanded. If any burrs or lumps remain, these should be removed with the support 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 sandpaper of the corresponding grain size (see table) in order to remove imperfections.

The use of the "fresco on fresco" technique is not recommended in the case of substrates with joints (tile type) as it is possible that the joint will be marked when the microcement layer is applied. In this case, a drying time of 24 hours between layers is recommended.

"Fresh on dry".

Before applying a new layer, allow the previous layer to dry (about 4 hours) and sand gently with a roto-orbital sander or sandpaper of the appropriate grit size (see table) to remove imperfections.

Do not apply layers thicker than 1 mm for EVOLUTTION microcements (Microbase, Microfino, Microdeck). A total system thickness of 1 to 3 mm is recommended.

1.5. Sealed.

Topciment® microcement systems must be sealed once the curing process has been completed, which occurs between 24 and 48 hours after application. The sealing operation should not be started until the coating has a residual moisture content of less than 5 %, a value that should be verified by means of specific moisture measuring

instruments. For sealing, the use of Presealer primer is recommended, followed by the application of a varnish belonging to the Topsealer® range. In particular, the use of Topsealer WT Dragon is suggested, as it is the most advanced and complete product in the range. It is essential to strictly follow the application instructions detailed in the technical data sheets for each product.

1.6. Cleaning of tools.

Tools should be washed with water immediately after use. Once hardened, the material may only be removed by mechanical means.

Limitations

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.

Low temperatures lengthen and high temperatures significantly reduce the shelf life and drying time of the product.

For substrates with joints, the drying time between layers should be 24 hours, otherwise there is a possibility that the joint will be marked when applying the next layer of microcement.

Special precautions

This product contains cement.

- Avoid contact with eyes and skin and avoid inhalation of dust.
- Wear rubber gloves and protective goggles.
- Do not apply the product at room temperature lower than 10°C and not higher than 30°C.

It is essential to follow the instructions on the label. For further information please refer to the safety data sheet of the product.

Empty containers must be disposed of in accordance with current legislation.

Keep out of the reach of children.

Presentation

Available in 18 kg packs

Storage conditions

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



The product must not be used for purposes other than those specified, without first have written instructions on how to handle them. It is always the responsibility user to take the appropriate measures in order to comply with the requirements of the established in the legislations. The professional has at his disposal the Product Safety Data Sheet.

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