



UNLIMITED

MICROBASE

UNLIMITED MICROBASE (A+B) Preparation microcement



Unlimited Microbase is the top range of two-component preparation microcement in powder. It has been formulated to improve its workability, thus reducing the burning effect of the steel trowel and obtaining smoother finishes. In addition, the mechanical resistance has increased, hence obtaining the best features. It is available in three different granulometries: L, XL and XXL, to adapt to all applications. Ideal for preparing the surface before applying Unlimited Microdeck finishing microcements.

It is applied as a continuous low-thickness coating on floors and walls. Topciment microcements are applied by trowel in several coats allowing a variety of effects to be achieved. As part of an application system, the application substrate must be prepared using Topciment's recommended products.

Formulated with hydraulic binders, selected aggregates and specific additives, Unlimited Microbase (powder component A) must be mixed with the Acricem resin (liquid component B) respecting the proportions of this technical sheet to guarantee the properties of the coating. Once mixed, it allows the creation of a low thickness coating of 1 to 3 mm, with high mechanical resistance and strong adhesion to any type of surface: concrete, cementitious mortars, ceramic, MDF, plaster and plasterboard.

Properties

- Continuous coating without cracks (always respect the expansion joints).
- Can be applied to almost any type of surface: concrete, cement, ceramic, plaster, plasterboard, etc.
- Excellent workability.
- Wide range of colours and effects.
- Matt, satin and gloss finishes.
- High adherence to the substrate.

Recommendations for use

a. Preparation of the substrate:

Before applying Unlimited Microbase it is necessary to prepare the surface depending on the conditions of the substrate. Certain applications require specific solutions: flat and flexible Bultex fibreglass mesh, adhesion promoters Primacem PLUS or Primacem ABS, Impoxy vapour barriers or moisture barriers by capillarity. In any case, follow the recommendations of our technicians.

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

b. Mixture:

Unlimited Microbase is mixed with the Acricem resin and the pigments according to the selected colour. To guarantee the properties of the coating it is essential to respect the proportion between the microcement and the resin:

- 10 kg Unlimited Microbase L - 2,8 litres Acricem resin
- 10 kg Unlimited Microbase XL - 2,7 litres Acricem resin
- 10 kg Unlimited Microbase XXL - 2,7 litres Acricem resin

c. Preparation of the microcement:

The microcement must be prepared as follows:

1. Pour some Acricem resin in a container, add all the pigment load corresponding to the amount of microcement with which it is to be worked and mix until a homogeneously coloured liquid is obtained.
2. Pour the powdered microcement and the resin gradually while mixing the product with a low-speed mechanical mixer.
3. Mix for at least 4 minutes until a homogeneous mixture is obtained that is free of lumps.

d. Consumption:

The consumption will depend on the substrate to be coated. In a normal application the consumption is:

Unlimited Microbase L (2 layers) – 2,00 kg/m²

Unlimited Microbase XL (2 layers) – 3,00 kg/m²

Unlimited Microbase XXL (2 layer) – 3,00 kg/m²

The better the levelling and preparation of the surface to be coated is, the better the consumption and the lower the cost in material and application time will be. It is convenient to choose the right method for each application.

Technical data

Type:	Microcemento bicomponente
Appearance	
Maximum size of the aggregates:	Polvo blanco
	Unlimited Microbase L: 0,3 mm Unlimited Microbase XL: 0,4 mm Unlimited Microbase XXL: 0,6 mm
Apparent density:	En polvo – 1175 ± 50 kg/m ³ En pasta – 1480 ± 50 kg/m ³ Endurecido – 1430 ± 50 kg/m ³ (28 días)
Compressive resistance (EN 13892-2):	28 días: ≥ 55 N/mm ²
Flexural strength (EN 13892-2):	28 días: ≥ 10 N/mm ²
Adherence strength (EN 13892-8):	28 días: ≥ 1,5 N/mm ²
Fire resistance (EN 13501-1):	B _{FL} s1

Application

a. Preparation layers:

Depending on the type of application substrate, apply one or two coats of Unlimited Microbase using a metal trowel. Always cover the floor with two coats and with the flexible fibre mesh ,BUILTEx . Before applying a new coat, let the previous one dry and sand it gently with a rotary sander and 40 grain sandpaper, in order to remove any imperfections.

b. Finishing layers

La aplicación puede terminarse con una tercera mano de Unlimited Microbase empleando la técnica "fresco sobre fresco". En pavimentos es posible emplear Unlimited Microdeck aplicado en dos manos.

"Fresh on fresh"

Unlimited Microbase 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 newly applied microcement no longer adheres to the fingers when touched). The second coat of the Unlimited Microbase applied with this technique must not be sanded. If there are any burrs or lumps, these should be removed with the spatula, removing any material that protrudes. Apply the third coat working on extruded polystyrene boards. Once the material is dry, carry out a soft sanding with a rotary orbital sander or with 40 grain sandpaper in order to eliminate imperfections (as soon as it has changed colour and is lighter).

Do not apply layers thicker than 1 mm for the Unlimited Microbase, Unlimited Microdeck. A total system thickness of 1 to 3 mm is recommended.

c. Sealed:

The Topciment microcements must be sealed once they have hardened within 24 to 48 hours. Never before the coating has reached a humidity of less than 5 %, measured with instruments designed for this purpose. The Topciment microcements can be sealed with the Presealer primer and the Topsealer WT water-based varnish.

We recommend that you carefully follow the application tips in the technical data sheets.

Special precautions

This product contains cement.

- Avoid contact with eyes and skin, as well as inhalation of dust.
- Use rubber gloves and protective glasses.
- Do not apply the product at an ambient temperature below 10°C or above 30°C.

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

Empty containers must be disposed of in accordance with current legislation. Keep out of the reach of children.

Packaging

It is available in 20 kg buckets.

Cleaning of tools

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

Pot life

The lifetime of the product or Pot-life is 1 hour at about 20°C. We recommend making kneadings according to the experience of the applicator.

Storage conditions

It 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 heat sources and direct sunlight. The time of use is 1 year from the date of manufacture, properly stored.



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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.

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