



# Microbase 105

Microcement for surface preparation

Pack Size  
17.5Kgs

## TDS Technical Data Sheet



### Description

CLI Microbase 105 is a two-component microcement powder designed for surface preparation before applying the finishing CLI Microfine 1135. It is formulated to be applied as a low-thickness continuous coating onto floors and walls. CLI Microbase 105 is applied in several layers with a trowel, allowing for the creation of a wide range of finishes. The product is part of a complete application system and should be used with other products recommended by CLI.

This microcement is composed of hydraulic binders, selected aggregates, synthetic resin, and specific additives. The powder component (Component A) must be mixed with the liquid component (Component B) according to the specified quantities to ensure the product's intended properties. The mixed product creates a coating of 1-3 mm with high mechanical strength and strong adhesion to various substrates, including concrete, cement-based mortars, ceramic, MDF, plaster, and drywall, as long as they are correctly prepared.

### Properties

- Continuous decorative coating without fissures (expansion joints must be respected)
- Applicable on various surfaces: concrete, cement, ceramic, plasterboard, etc.
- Excellent workability
- Wide range of colors
- Available finishes: matt, satin, and gloss
- High adhesion to substrates

### Recommendations for Use

#### Surface Preparation

Prior to applying CLI Microbase 105, the surface must be properly prepared depending on its condition. Specific coatings may require solutions like flat and flexible fiberglass mesh Bultex. The surface should be free of dust and grease, well-consolidated, and level.

#### Mixing Instructions

Add the resin and pigments in the recommended proportions. It is crucial to maintain the correct resin-to-microcement ratio to ensure optimal product properties. The ratio is 10 kg of CLI Microbase 105 to 3.0 liters of resin.

#### Mortar Preparation

1. Pour Part A into a container, then add the entire load of pigment corresponding to the amount of microcement and mix until an even, colored liquid is obtained.
2. Gradually add the microcement powder into the resin while mixing with a low-speed mixing drill.
3. Mix for at least 4 minutes until a smooth mixture free of lumps is achieved.

### Consumption

The consumption rate depends on the surface. For standard applications: CLI Microbase 105 (2 layers): 1.40 kg/m<sup>2</sup> Better surface

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leveling and preparation reduce consumption and installation time.

## Technical Data

Type:	Two-component microcement
Appearance:	White powder
Maximum Size of the Aggregates:	0.5 mm
Apparent Density:	In powder - 1175 ± 50 kg/m <sup>3</sup> ; In mortar - 1480 ± 50 kg/m <sup>3</sup> ; Hardened - 1430 ± 50 kg/m <sup>3</sup> (28 days)
Compressive Strength (EN 13892-2):	28 days: ≥ 55 N/mm <sup>2</sup>
Flexural Strength (EN 13892-2):	28 days: ≥ 10 N/mm <sup>2</sup>
Adherence Strength (EN 13892-8)	: 28 days: ≥ 1.5 N/mm <sup>2</sup>
Fire Resistance (EN 13501-1)	: BFL s1

## Application Instructions

### Application Layers

Apply one or two layers of CLI Microbase 105 with a steel trowel depending on the surface type. On floors, always apply two layers and use flexible fiberglass mesh Builtex. Before applying a new layer, sand the previous one with a random orbital sander and 40-grit sandpaper to remove irregularities.

### Finishing or Setting Coat

Finish with a third coat of CLI Microfine 1135 using the "fresh on fresh" technique. Apply CLI Micro Topping in two layers on floors and CLI Micro Topping exclusively on walls and floors. Do not apply layers thicker than 1 mm. The total thickness of the combined layers should not exceed 3 mm.

### Sealing

CLI Micro Topping should be sealed once hardened, 24-48 hours after application. Sealing should occur after the coating's humidity drops below 5%, as measured with appropriate tools. CLI Micro Topping can be sealed with Microseal A/P(U)/P(2S). Follow the application instructions in the technical datasheet carefully.

### Special Precautions

This product contains cement. Avoid contact with eyes and skin, as well as inhaling the powder. Use rubber gloves and safety glasses. Apply the product at an ambient temperature between 10°C and 30°C. Low or high temperatures may significantly alter the pot life and drying times. Dispose of empty containers according to local regulations. Keep out of reach of children.

## Cleaning of Tools

Clean tools with water immediately after use. Once hardened, the material can only be removed by mechanical means.

## Pot Life

The pot life is 1 hour at around 20°C. It is advisable to mix quantities according to the applicator's experience.

## Storage Conditions

Store the product in its closed original packaging, protected from weather conditions at temperatures between 10°C and 30°C, in a dry, 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.

## Pack Size

17.5Kgs



**Data Reliability**

All technical data provided in this document are based on laboratory tests. Actual performance may vary due to factors beyond our control.

**Regional Compliance**

Product specifications may vary based on local regulations. Please refer to the local Product Data Sheet for precise information.

**Legal Disclaimer**

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