



# KAL



**Meex Kal** is a two-component lime-based microcement. It has been formulated for application as a continuous, thin coating on floors and walls. It stands out for its artisanal finish, workability, and extreme hardness. It is applied with a trowel in multiple layers, allowing for a wide variety of effects such as tadelakt or exposed concrete finishes. As part of an application system, the substrate is prepared with **Meex Kal XL** or **L**, followed by the finishes **Meex Kal M** and **S**.

## PROPERTIES

- Continuous seamless coating (always respect the expansion joints).
- Applicable on almost any type of substrate: concrete, cement, ceramics, plaster, plasterboard, etc.
- Excellent workability.
- Wide range of colours and effects.
- Matt, satin and gloss finishes.
- High adhesion to the substrate.
- Handmade finish.
- High hardness.

## CONSUMPTION

The performance will depend on the substrate to be coated. In a standard application, the performance is as follows:

**Meex Kal XL** – (Two coats): 2 kg/m<sup>2</sup>

**Meex Kal L** – (Two coats): 1,4 kg/m<sup>2</sup>

**Meex Kal M** – (Two coats): 1 kg/m<sup>2</sup>

**Meex Kal S** – (Two coats): 0,5 kg/m<sup>2</sup>

## INSTRUCTIONS FOR USE

### Support Preparation

Before applying **Meex Kal** microcement, it is necessary to prepare the surface based on the conditions of the application substrate. Certain applications may require specific solutions: flat and flexible fiberglass mesh **MyMesh**, adhesion promoters **Meex Primer 200** o **Meex Primer 100**, vapor barriers, or capillarity moisture barriers **Meex Poxy**. In any case, follow the recommendations of our technicians.

The application substrate must be clean and free of grease, the base must be consolidated, and in good flatness conditions.

### Mixing

**Meex Kal** is mixed with **Meex Resin** and dyes according to the selected colour. To guarantee the properties of the coating, it is essential to respect the ratio between the microcement and the resin:

20 kg of **Meex Kal XL** – 6 L of **Meex Resin**

20 kg of **Meex Kal L** – 6,6 L of **Meex Resin**

18 kg of **Meex Kal M** – 6,6 L of **Meex Resin**

15 kg of **Meex Kal S** – 6,4 L of **Meex Resin**

### Preparation of the mortar

The mortar should be prepared as follows:

1. Pour the **Meex** **Resin** into a container, add the entire load of pigment corresponding to the quantity of microcement to be worked with and mix until a homogeneous colour liquid is obtained.
2. Pour the microcement powder 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.

### Consumption

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.

## TECHNICAL DATA

### Meex Kal XL

Type	Two-component microcement
Appearance	White powder
Maximum aggregate size	0,4 mm
Bulk density	In powder form: $1175 \pm 50 \text{ kg/m}^3$ In paste: $1480 \pm 50 \text{ kg/m}^3$ Hardened: $1430 \pm 50 \text{ kg/m}^3$ (28 days)
Compressive strength (EN 13892-2)	$\geq 60 \text{ N/mm}^2$ (28 days)
Flexural strength (EN 13892-2)	$\geq 10 \text{ N/mm}^2$ (28 days)
Adhesion strength (EN 13892-8)	$\geq 1,5 \text{ N/mm}^2$ (28 days)
Reaction to fire (EN 13501-1)	B <sub>FL</sub> s1

### Meex Kal M

Type	Two-component microcement
Appearance	White powder
Maximum aggregate size	0,2 mm
Bulk density	In powder form: $1175 \pm 50 \text{ kg/m}^3$ In paste: $1450 \pm 50 \text{ kg/m}^3$ Hardened: $1390 \pm 50 \text{ kg/m}^3$ (28 days)
Compressive strength (EN 13892-2)	$\geq 45 \text{ N/mm}^2$ (28 days)
Flexural strength (EN 13892-2)	$\geq 10 \text{ N/mm}^2$ (28 days)
Adhesion strength (EN 13892-8)	$\geq 1,2 \text{ N/mm}^2$ (28 days)
Reaction to fire (EN 13501-1)	B <sub>FL</sub> s1

### Meex Kal L

Type	Two-component microcement
Appearance	White powder
Maximum aggregate size	0,3 mm
Bulk density	In powder form: $1175 \pm 50 \text{ kg/m}^3$ In paste: $1480 \pm 50 \text{ kg/m}^3$ Hardened: $1430 \pm 50 \text{ kg/m}^3$ (28 days)
Compressive strength (EN 13892-2)	$\geq 60 \text{ N/mm}^2$ (28 days)
Flexural strength (EN 13892-2)	$\geq 10 \text{ N/mm}^2$ (28 days)
Adhesion strength (EN 13892-8)	$\geq 1,5 \text{ N/mm}^2$ (28 days)
Reaction to fire (EN 13501-1)	B <sub>FL</sub> s1

### Meex Kal L

Type	Two-component microcement
Appearance	White powder
Maximum aggregate size	0,1 mm
Bulk density	In powder form: $930 \pm 50 \text{ kg/m}^3$ In paste: $1420 \pm 50 \text{ kg/m}^3$ Hardened: $1310 \pm 50 \text{ kg/m}^3$ (28 days)
Compressive strength (EN 13892-2)	$\geq 32 \text{ N/mm}^2$ (28 days)
Flexural strength (EN 13892-2)	$\geq 7 \text{ N/mm}^2$ (28 days)
Adhesion strength (EN 13892-8)	$\geq 1,2 \text{ N/mm}^2$ (28 days)
Reaction to fire (EN 13501-1)	B <sub>FL</sub> s1

## APPLICATION

### Preparation coats

Depending on the type of substrate to be applied, apply one or two coats of **Meex Kal XL** or **L** with a metal trowel. On floors, apply, before the first coat, **Meex Mesh** flexible fibre mesh and then apply two coats of microcement. Between coats, let the previous one dry for 4 hours and sand gently with a rotoorbital sander and 40-grit sandpaper, in order to eliminate imperfections.

### Finishing coats

The application can be finished with two coats of **Meex Kal XL, L, M** or **S**. Between coats, allow the previous one to dry for 4 hours and sand gently with a rotoorbital sander and 40-grit sandpaper to remove imperfections. The microcement **Meex Kal S** finish is for exclusive use on walls and non-trafficable surfaces.

"Fresh on fresh"

**Meex Kal** 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 freshly applied microcement stops sticking to the fingers when touched). The second coat of **Meex Kal** applied with this technique should not be sanded. If burrs or lumps remain, these should be smoothed out with the spatula, removing any protruding material. Apply the third coat working on extruded polystyrene boards. Once the material is dry, carry out sanding with a roto-orbital sander or 40-grit sandpaper to remove imperfections (as soon as the material has changed colour and is lighter in colour).

Do not apply layers thicker than 1 mm for **Meex Kal** microcements. A total system thickness of 1 to 3 mm is recommended.

### Sealing

**Meex** microcements should be sealed once hardened, typically between 24 and 48 hours. Never before the coating has reached a moisture level below 5%, as measured with instruments designed for this purpose.

**Meex Kal** microcements can be sealed using the pore-filling primer **Meex Cover** and the water-based varnish **Meex Sealant 2K**. We recommend meticulously following the application advice provided in the technical data sheets.

## SPECIAL PRECAUTIONS

This product contains cement.

Avoid contact with eyes and skin and avoid inhalation of dust.

Use rubber gloves and protective goggles.

Do not apply the product at room temperature below 10°C or above 30°C.

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

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

To prevent the product from drying out or thickening, close the lid after each use.

## CLEANING OF TOOLS

Tools should be washed with soap and water immediately after use.

## STORAGE CONDITIONS

It 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 sources of heat and direct sunlight. The shelf life is 24 months from the date of manufacture, if stored properly.

## Packaging

Available in 18 kg bucket: **Meex Kal M**

Available in 20 kg bucket: **Meex Kal L** y **Meex Kal XL**

Available in 15 kg bucket: **Meex Kal S**

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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