

# Microcement Information

**CONCRETE LAB.**  
*polished concrete materials*

## 1 Product Description

Our Microcement Polished Concrete Kit contains the liquid required to prime the substrate and the powders required for the microcement allowing you to produce your own polished concrete floor, walls, worktops and furniture.

Microcement is sometimes known as microconcrete, microtop, and beton ciré amongst other names. It is a trowel-applied finish for walls, floors, worktops and furniture.

The kit comes in three options for covering 1sqm, 5sqm or 10sqm, and comes in a choice of either a white or grey base. Light, mid and dark grey use a grey cementitious base. White/off white uses a white cementitious base.

It can be applied to variety of different substrates as long as they are sound.

PLEASE READ THE FULL INFORMATION SHEET BEFORE COMMENCING YOUR MICROCEMENT PROJECT.

It is:

- ✓ Easy to apply
- ✓ Easy to repair if damaged
- ✓ Compatible with Ecobeton GiGi Concrete Sealer (supplied separately)

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## 2 Equipment Required

### Equipment For Mixing

- Electric paddle mixer (optional and preferable)
- Containers for mixing
- Bucket trowel (optional) for scraping the mix in the bucket

### Equipment For Application of Microcement

- Roller & frame
- 240mm spatula or Plastering Trowels
- Orbital Sander (Mirka deros or similar)
- 80, 120, 180 or 240 grit (Mirka Abranet or similar)
- Good quality joint tape
- Fibreglass mesh

## 3 Whats Included (10sqm / 5sqm / 1sqm Kit)

- 2 x packs of microcement powder (1 per coat)
- Primer 0.5L / 0.25L / 0.05L Resin (enough for 1 coat) This must be mixed with 3 parts water.

## 4 Preparation

Good preparation is very important to ensure a high quality finish and reduce the chance of any problems in the future. Our products are durable but any project is only as good as the surface / sub-base it goes over.

- a. Ensure the surface is clean, free from grease/wax or any other contaminants.
- b. Ensure the surface is sound/solid with any joints between materials fully secured to prevent cracking. Good quality scrim cloth should be used over any joints.
- c. If going over timber floors it may be necessary to fix cement board over the floor to give a uniform sub-base
- d. If going over cement board, concrete, tile or similar it may be necessary apply a layer of fibreglass mesh straight after priming. Ensure joints are overlapped by at least 100mm.
- e. Self levelling compound can be applied over the mesh to ensure a continuous smooth base to work from. We recommend Mapei Ultraplan 3240 Self levelling compound. **DO NOT USE anhydrite based products.**

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## 5 Application of Primer

- a. Mix 3 parts clean water to 1 part neat resin.
- b. Apply one layer of the primer with a paint roller to areas to be microcemented. If applying mesh it should be applied straight after the primer.
- c. Let dry for at least 30 minutes.
- d. If applying mesh we recommend going over it with self levelling compound.
- e. Self levelling compound must be primed before application of microcement.
- f. We recommend sanding any undulations/bumps in the self-levelling compound to ensure a smooth substrate.

## 6 Application of each coat

- a. Dry blend the microcement powder so that the ingredients are fully combined. This is very important to ensure the colourant is homogenous throughout the mix.
- b. Measure out the correct amount of water for the mix. This is 25% of the overall powder weight. (281g for 1sqm / 1408g for 5sqm / 2816g for 10sqm)
- c. In a clean bucket add the liquid gradually to the blended microcement powder (hold back 5 /10% of the liquid) whilst mixing for 3-5 minutes until reaching a smooth creamy consistency. Make sure the corners of the bucket are scraped so that any dry material is mixed and there are no lumps. Let it rest for 2 minutes as there may be a false set. Then mix in the remaining liquid.
- d. Up to 10% water can be added to give the desired consistency.
- e. Spread the microcement with a spatula or trowel on the surface with pressure.
- f. Once it has gone off enough to be able to walk on or feels touch dry the second coat can be applied straight away. Check for any high spots/ridges before applying the second coat and gently smooth off with the trowel.
- g. After at least 8 hours sand with the orbital sander using the 120 grit Abranet pads, 180 & 240 grit can be used to achieve the desired effect. Alternatively diamond pads can be used.

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**7 Apply Sealer (we recommend Ecobeton GiGi Sealer supplied separately on our website)**

## Tricks & Tips

### Substrates

Wood - joints should be scrimmed with plasterboard scrim. Make sure joints are fixed and there is no flex or give.

Concrete - Ensure cracks and large voids are filled.

### Floors

To make the microcement mix easier to apply to floors add up to 5% extra water to make it more flowable. Ensure the same amount is added to each mix as it may effect the colour slightly. If you have any primer liquid left you can add up to 10% just make sure exactly the same amount is added to each mix.

### Vertical Surfaces

A stiffer mix is preferable. Mix a small amount of material in advance and do a test application.

### Application

Remember - Apply in thin layers help make the product as strong as possible.

If you are confident the first coat has been applied very flat and does not require sanding the second coat can be applied as soon as the coat is dry enough to walk on. If in any doubt then wait and sand between coats.

If the first coat has been left to go off do not use primer between coats. The area should dampened to ensure a good bond with the second coat.

If when sanding the microcement is shredding or being damaged then stop and wait another few hours before sanding.

While sanding if you vacuum a section and wipe it with a damp cloth this will give an indication of the finish once sealed.

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Always mix up a little more than you will need so you're not caught short. Have primed samples boards at the ready for any left over material.