

# CLAUDI CEMENTO



Microcement application  
manual

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## ClaudiCemento Microcement system:

1. **No.1 Sealer** – hardener and sealer, improves adhesion to the substrate. To be used as a preparation to ClaudiCemento Base application.
2. **ClaudiCemento Base** - has larger aggregate and gives the microcement strength and body
3. **ClaudiCemento Fine or Deck microcement** (one, two or three coats depending on the desired finish. Depending on the look you are trying to achieve and where you wish to apply your microcement).
4. **Primer Protector** - it is a necessary product to avoid the softening produced by varnishes which are applied as the final coats of the system.
5. **Protector Dur Satin or Matt or Epoxy** - finishing coat to protect the finished floor and give it a matt or satin look. The sealer you choose will be determined on how you want the finished surface to look and its function.

All floor applications use a **fiber mesh** for strength and cohesion, ensuring greater durability and minimising the risk of cracks rising from the base.

**FIX ALL** - repair and base mortar for the ClaudiCemento system which should be used in the case of problematic, weak, uneven surfaces.

**FLEXY FIX** - sealer with advanced formula for any substrate requiring high waterproofing isolation , to be applied after Sealer no1.

The assessment of the substrate is a key element in microcement application. This enables us to use appropriate products which will prepare our substrate for the microcement application. The table below demonstrates which products should be used depending on a substrate.

Products	Type of substrate			
	Regular substrate in perfect condition	Irregular substrate or application on flooring tiles	Substrate with moisture problems	Irregular substrate or application on flooring tiles with moisture problems
No.1 Sealer	◆	◆	◆	◆
FIX ALL		◆		◆
FLEXY FIX			◆	◆
Fiber mash	◆	◆	◆	◆
ClaudiCemento Base	◆	◆	◆	◆
ClaudiCemento Fine / Deck	◆	◆	◆	◆
Primer Protector	◆	◆	◆	◆
Protector Dur Satin / Matt / Epoxy	◆	◆	◆	◆



ClaudiCemento Deck



## Microcement installation general recommendations

- The floor heating needs to be switched off at least 72hrs before the microcement application on a floor and can be switched back on 28 days after the installation
- The surface must be smooth, with all dust and contamination removed
- Microcement installation does not even out the surface, the surface needs to be smooth and clean prior to the installation
- The substrate needs to have a DPM (Damp proof membrane)
- The substrate needs to be sound
- Microcement cannot be installed on an expansion foam
- Microcement can not be installed on floorboards



ClaudiCemento Fine

- Any furniture / objects in the area where the microcement installation will be taking place should be either removed or secured and protected
- Tape should be used on walls board joints to prevent microcement cracking
- It takes 5 days for the microcement to fully cure and set. During the curing period, which starts after the final coat of seal was installed, no work and trades should be carried out in the area where the microcement was installed. On a 5th day a breathable membrane floor cover should be used if there will be any ongoing trade works.





**ClaudiCementoFine • Protector Dur Satin**

## STAGE 1 - Substrate preparation

### Regular substrate in perfect condition - No.1 Sealer + Fiber Mesh

- No.1 Sealer - on a clean, sound, dust free substrate our No1 Sealer must be applied. Once No.1 Sealer is relatively dry a fiber mesh must be applied - fiber mesh should be extended properly avoiding any folds . Apply No1 Sealer again on Fiber mesh.
- Leave it to dry for about approximately an hour (drying time depends on the substrate, on a very porous substrate the drying time will be shorter)

### Irregular substrate or tile flooring - No.1 Sealer + FIX ALL+ Fiber Mesh + FIX ALL + No.1 Sealer

- No.1 Sealer - on a clean, sound, dust free substrate our Sealer no 1 must be applied evenly on the substrate with a roller (foam, wool or fiber), or airless spray gun, brush. Leave it to dry for about approximately an hour
- Once No.1 Sealer is dry FIX ALL should be applied to even out the surface.
  - Add 6 litres of clean water and mix with a mechanical stirrer until a homogeneous paste is achieved
  - The application must be performed with a toothed trowel 6 mm. of deep and then smooth it

with the smooth swinging of the trowel to make sure the layer thickness is as uniform possible

- Spread FIX ALL evenly fix up all the joins, holes, cracks

C. Embed fiber mesh while the mortar is fresh, top-down (if upright), pressing it flat so that it is fully embedded in the mass

D. Apply another coat of FIX ALL make sure fiber mesh is fully covered, let it fully dry

E. Re apply No.1 Sealer on the dry FIX ALL and let it dry for an hour

### Irregular substate with moisture problems - Sealer no1 + Fiber Mesh + FLEXY FIX

- No.1 Sealer - on a clean, sound, dust free substrate No.1 Sealer must be applied evenly on with a roller (foam, wool or fiber), or airless spray gun, brush or brush. Once No.1 Sealer is relatively dry a fiber mesh must be applied - fiber mesh should be extended properly avoiding any folds . Apply No1 Sealer again on fiber mesh.
- Leave it to dry for about approximately an hour (drying time depends on the substrate, on a very porous substrate the drying time will be shorter)
- Apply FLEXY FIX
  - In a clean container mix component A with component B
  - Leave to settle for 10 minutes.
  - Spread with a trowel or roller of 3 mm. or 6 mm
  - Embed an anti-alkali fibre mesh
  - Pass the metallic trowel again, smothering the area
  - Leave 5mm join between the wall and the floor, it is a seamless system, the floor needs space to move

READ ALL THE TECHNICAL SHEETS OF ALL PRODUCTS AT [WWW.CLAUDICEMENTO.COM](http://WWW.CLAUDICEMENTO.COM)



## STAGE 2 ClaudiCemento Base application

Once the substrate is fully prepared and dry ClaudiCemento Base can be applied. In a clean plastic container pour the material and add water - 20%, mixing and homogenising the product with mechanical stirrer at low speed (300-500 rpm) for at least 3 minutes, let stand for 10 minutes then stir for 2 minutes until a uniform mixture free of lumps.

Two coats of ClaudiCemento Base should be applied

- Start applying a first coat of ClaudiCemento Base
- After 4-6 hours, depending of the weather environment,
- Sand it with a sand paper number 60 -80 grade
- After sanding remove all the dust
- Add pigment to the second coat - see "How to add a pigment to ClaudiCemento Microcement" section
- Apply the second coat
- Make sure each coat is perfectly smooth, sand the last coat with sand paper number 60- 80 grade
- After sanding remove all the dust

## STAGE 3 ClaudiCemento Fine / Deck microcement application

- Mix ClaudiCemento Fine / Deck microcement with water at 30 % approximately (add pigment to the desired amount of water, - see "How to add a pigment to ClaudiCemento Microcement" section , mix it slowly in a clean bucket until you get a homogenous paste with no lumps - ( use a mixer 300 to 500 rpm), mix it for 3 minutes, let it rest for 10 minutes and mix again for 2 minutes
- Apply first coat of ClaudiCemento microcement Fine / Deck (if application takes place in high temperature, slightly moisten the surface of the substrate before application).
- Sand the first coat of ClaudiCemento microcement Fine/Deck with a sand paper 80 - 120 grade (on FINE best to use 120) to remove any imperfections, follow by vacuuming the surface
- Apply a second coat of ClaudiCemento microcement Fine / Deck , sand it with 120 - 240 grade sand paper and vacuum again
- If we want to achieve a rough/coarse finish - the unique formula ClaudiCemento DECK microcement enables us to instal it without having to sand the surface between the layers, even as a finishing coat.

READ ALL THE TECHNICAL SHEETS OF ALL PRODUCTS AT



**ClaudiCemento Deck**





ClaudiCemento Fino • Protector Dur Matt

## STAGE 4 Priming and sealing

- Spread the Primer protector (1:1 water in **case of intense colours**) throughout carefully with a sponge or sponge roller or spry gun or velour short pile roller
- Let it dry for about 4- 6 hours
- Once its dry apply Protector Dur MATT or SATIN or EPOXY (sealer) - note the application of the first coat of Protector Dur MATT/SATIN or EPOXY must take place on the same day - 2-3 coats , make sure you let it dry for 6 hours between each coat application.

**Protector DUR MATT/SATIN component ‘A’ to ‘B’ - 1L : 0,1 L, Protector DUR Epoxy component “A”to “B” is 1L:0,25L.**

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Substrate preparation	
Regular substrate in perfect condition	No.1 Sealer + Fiber Mesh
Irregular substrate or tile flooring	No.1 Sealer + FIX ALL + Fiber Mesh + FIX ALL + No.1 Sealer
Substrate with moisture problems	No.1 Sealer + Fiber Mesh + FLEXY FIX
Irregular substrate or tile flooring with moisture problem	No.1 Sealer + Flexy FIX + FIX ALL + Fiber Mesh + FIX ALL + No.1 Sealer
ClaudiCemento Base application	
2 coats of ClauduCemento Base microcement + sanding + clean	
ClaudiCemento Fine / Deck microcement application	
2 coats Microcement ClauduCemento Fine / Deck + sanding + clean	
Priming and sealing	
1 coat of Primer protector + 2 to 3 coats of Primer DUR SATIN,MATT or EPOXY	



# HOW TO MIX PIGMENTS WITH CLAUDICEMENTO MICROCEMENT BASE, MICROCEMENT DECK AND MICROCEMENT FINE.

One bottle of ClaudiCemento pigment is ready to be mixed with:

- one 20kg bucket of ClaudiCemento Microcement Fine,
- one bucket 23kg bucket of ClaudiCemento Microcement Deck, and/or
- one 24kg bucket of ClaudiCemento Microcement Base.

If less than a full bucket of microcement Deck, Fine or Base is used, then we need to calculate how much pigment should be added.

The calculation is as follows:

Weight of the pigment divided by the weight of the product, for example:

Example:

One bottle of Light Grey pigment is 93 gr.

Therefore, 93gr of Light Grey should be mixed with a full bucket of Microcement Fine (20kg), Deck (23kg) or Base (24kg).

If we wish to use only 5kg of Microcement Fine then we need to divide 93gr (weight of the pigment ) by 20kg (weight of the full bucket of Microcement FINE) and multiply it by 5kg ( the actual weight of the product that we will be using) :

$93\text{gr} : 20\text{kg} = 4.65\text{gr}$  ( this is how much we would use of 1 kg of Microcement Fine)

$4.65\text{gr} \times 5 = 23.25\text{gr}$

For 5kg microcement Fine we need 23.25gr of ClaudiCemento Light Grey pigment



ClaudiCemento Fine



# CLAUDI CEMENTO



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