

## Working methods

Microcement METALLIC CimentArt

### Essential tools for applications

- Protective tape
- Scissor or cutter
- Sander
- Sandpaper grit 40
- Sandpaper grit 120 – 150
- Spatula
- Steel trowel
- Microfiber roller
- Painting Pan
- Electric mixer
- Vacuum cleaner
- Measuring glass or digital scale

### Necessary CimenArt products

- CimentArt Primer
- CimentArt Fiberglass mesh
- CimentArt Mixture resin
- Microcement Base CimentArt
- Thin microcement CimentArt
- METALLIC Sealer CimentArt
- Bi-component Polyurethane varnish CimentArt (Component A and B)

### Before starting

Check the surface where the product would be apply and make sure the surface is:

- Straight
- Stable, motionless
- Dry and without humidity
- Clean
- Free of dust, grease, etc.

### Step-by-step application

#### 1. Place the protective tape where necessary

- For the application over completely smooth walls, do only steps 2, 4, 5 and 6.
- In the case of application on floors and walls in bad conditions or with tile joints do all the steps.

#### 2. Extend the Fiberglass mesh CimentArt over the Surface



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**3. Apply a layer of CimentArt Primer with a roller over the fiberglass mesh, or in the case of completely smooth walls apply the layer over the Surface.**



- Clean the roller and the painting pan with water.

#### 4. Microcement base CimentArt

- Stir energetically the Mixture Resin CimentArt.
- Mixture for floors: 2,5 parts of Microcement powder per 1 part of Mixture Resin CimentArt.
- Mixture for walls: 3 parts of Microcement powder per 1 part de Mixture Resin CimentArt.
- The coverage is of 1kg/ m2 for a layer of 1 mm, it is necessary to apply 2 layers. 2kg of. Microcement Base is necessary for a surface of 1 m2.
- Mix well with an electric mixer to achieve a smooth mixture.



First layer application of Microcement Base:

- With the steel trowel, using an angle of 45° giving a thickness of 1 mm maximum (the thickness given by the grain of the mixture and by the pressure used during the application).
- Complete the first application making it as homogeneous and without irregularities as possible.

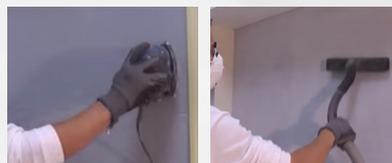


- Remove the protective tape before Microcement hardens.



Allow the Microcement Base to dry completely:

- The drying time depends on the humidity, temperature, ventilation, etc.
- Remove with a spatula or with the sandpaper grit 40 any remaining irregularities of the first layer of Microcement Base.
- Remove the sanding dust with a vacuum cleaner. Use damp cloth to clean the surface.



Place the protective tape where necessary.



Apply the second Microcement Base layer:

- With the steel trowel, using an angle of 45° giving a thickness of 1 mm maximum (the thickness given by the grain of the mixture and by the pressure used during the application).
- Complete the second application making it as homogeneous and without irregularities as possible.
- Tip: the first layer as well as the second can be spray with water and slightly pass the steel trowel to correct the irregularities.



Remove the protective tape before the Microcement hardens and allow the second layer Microcement Base.

- The drying time depends on the humidity, temperature, ventilation, etc.



- Sand well with sandpaper grit 40, the second layer of Microcement Base correcting any irregularities, until the surface is completely smooth
- Remove sanding dust with a vacuum cleaner. A damp cloth can also be used to clean the surface
- Place the protective tape where necessary



## 5. Microcement CimentArt

- Mix 750 grams of Thin Microcement with half a liter of Mixture Resin CimentArt.
- The coverage of this Microcement is of approximately 250 grams / m<sup>2</sup> applying the product with a layer of 0,1 mm. it's necessary to apply 2 layer and between 400 to 500 grams are necessary for a surface of 1m<sup>2</sup>.
- Mix well with an electric mixer until a smooth mixture is achieve. In addition, let rest for a few minutes on winter (if it is summer this is not necessary).
- Do not mix a big ammount of this product, as it hardens fast tan the Microcement Base.

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Application of the first layer of Thin Microcement:

- Use our special trowel for Thin Microcement and make the application with short and circular movements, using an angle of 45° giving a thickness of 0,1 mm maximum (the thickness given by the grain of the mixture and by the pressure used during the application).
- Complete the first application making it as homogeneous and without irregularities as possible.
- Remove the protective tape. Allow the layer of Thin Microcement to dry.
- The drying time depends on the humidity, temperature, ventilation, etc.



- Sand the first layer of Thin Microcement with sandpaper grit 150 correcting any irregularities.
- Remove the sanding dust with a vacuum cleaner.
- Tip: before applying the second layer on high temperature environments, slightly spray the Surface with water; this will result in a better application of the product.



Place the protective tape where necessary.

Apply a second layer of Thin Microcement following the same result of the first layer.

- With the trowel for Thin Microcement and make the application with short and circular movements, using an angle of 45° giving a thickness of 0,1 mm maximum (the thickness given by the grain of the mixture and by the pressure used during the application).
- Complete the second application making it as homogeneous and without irregularities as possible.
- Remove the protective tape and allow the second layer of Thin Microcement to dry.
- The drying time depends on the humidity, temperature, ventilation, etc.
- Tip: For the joints not to be visible, the last layer of Thin Microcement CIMENTART is applied in a continuous fashion until the completion.



- Sand the second layer of Thin Microcement with sandpaper grit 150 to 200 correcting any irregularities.

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- Remove the sanding dust with a vacuum cleaner. Never use a damp cloth on this phase.



## 6. METALLIC sealer CimentArt

- Place the protective tape where necessary



Open the METALLIC SEALER CIMENTART container and stir well to get an homogenous mixture.

Pour into a painting pan the METALLIC SEALER CIMENTART and apply a uniform layer with a shorthaired roller or a microfiber roller.

- The coverage of the CIMENTART Sealer is of 50 gr /m2 for each layer, we recommend minimum 2 layers.



The application of the METALLIC sealer CimentArt will always be done over Thin Microcement CimentArt with a steel trowel or a sponge.

- Apply 2 or 3 layers as necessary with a maximum thickness of 0,1mm each layer ( less than the thickness of a sheet of paper) until the desired continuous result is achieved.



- The thickness of 0,1 mm is achieved with the METALLIC sealer CimentArt using the steel trowel in a 45° angle. It's important not to make a thicker layer than 0,1 mm in order to obtain a perfect and completely smooth finishing.



- Either the application is done with the steel trowel or a sponge, the application of the entire layer must be done with short and semicircular movements.

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- Each layer applied must be uniform and smooth. If it is necessary, slightly sand the first layer of METALLIC sealer CimentArt with sandpaper grit 150 and clean well the sanding dust before applying the next layer.
- The last and definitive layer of METALLIC sealer CimentArt must be completely smooth and should never be sand.
- Clean the roller and the painting pan

Allow the METALLIC sealer CimentArt to dry completely.

- The drying time depends on the humidity, temperature, ventilation, etc. it often dries really fast.

## 7. Bi-Componente polyurethane varnish CimentArt

Metallic Sealer CimentArt is a waterproof product. On indoor walls that have NO contact with water, it is not necessary to use Varnish Polyurethane CimentArt.

For the complete finishing of front walls, floors, showers and/or any other surfaces that could be in contact with water, use Bi- component varnish CimentArt.

Preparation:

- Mix 5 parts of the Cimentart water base Varnish Polyurethane component A with 1 part of the component B.
- To make 1 kg of varnish with the 2 components 840 gr of component A and 160 gr of component B are necessary.
- The approximate coverage is of 50 gr/ 1m<sup>2</sup>, applying a thin layer of 0,1mm. Is always necessary to apply two layers. To complete a surface of 10 m<sup>2</sup> with two layers approximately 1 kg of the mixture is necessary.



- Using a microfiber roller or a spray apply a first layer of varnish, 0,1mm of thickness (tipping off the surface when using the roller) and let dry at least 12 hrs.
- Using microfiber roller or a spray apply the second layer in the same fashion of the first one.
- A third layer can be apply for more protection, mainly on those areas exposed to water like showers or outdoor terraces.
- Do not forget to clean the roller and the painting pan with water or a solvent, depending of the varnish used.

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## Important

- It is important to stir energetically the Mixture Resin before mixing it with the Microcement powder. Otherwise, color stains may appear on the surface.
- Traditional Microcement can be use on any surface with the exception of those surfaces that have capillary humidity, pools, basements and factories with heavy machines traffic.
- Never use Microcement Base with layers over 1mm of thickness.
- Never use Thin Microcement with layers over 0.1 mm of thickness.
- If while mixing the Resin with the Microcement powder, the mixture is too liquid, let it rest for a few minutes until the desired consistency is achieved. This can occur on low temperatures on winter and /or with intense colors resin.
- Respect the proportions of Mixture Resin and Microcement powder. Otherwise, the final color can vary. This is especially important on the last two layers of Thin Microcement layers.
- It is necessary to have good lighting, natural or artificial, in the area where the Microcement METALLIC CimentArt system will be done.
- Use the Varnish of Polyurethane CimentArt always with thin layers of 0,1mm.
- Make sure all the Microcement surface is cover with the Polyurethane Varnish.
- The traditional Microcement CimentArt can be use without any problems on showers and areas constantly exposed to water. However, for this type of surfaces the use of gama AQUA, ready to use and 100% waterproof on all its layers is recommended.

Para asesoría técnica nos puedes escribir a: [info@grupocimentart.com](mailto:info@grupocimentart.com)

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