

# BETON CIRÉ ORIGINALE

## USER MANUAL + TECHNICAL DATASHEET



### PRODUCT DESCRIPTION:

Beton Ciré Originale is a cementitious, two-layer filler with micronized quartz for use on walls and floors.

### USAGE:

Beton Ciré Originale can be used for

- Application in bathrooms
- Walls
- Floors
- Furniture
- Kitchen worktops

Beton Ciré Originale is specifically designed for indoor usage.

#### NOTE:

*When applied on a floor with underfloor heating, the heating system should be installed in accordance with approved safety regulations to prevent cracks in the mortar and therefore in the Beton Ciré Originale.*

### METHOD OF APPLICATION:

#### PREPARATION (day 1)

The surface on which Beton Ciré Originale is applied should always be clean and dry.

#### **BETON CIRÉ ORIGINALE WALL FINISH**

Plasterboard, MDF, chipboard, sand-lime brick or Ytong blocks

All the seams need to be filled with a cement-based mortar, for example S+A Dichtmortel, and it must be provided with mesh tape. Next the substrate needs to be levelled with a cement-

bound levelling mortar, for example S+A Dichtmortel. Then the wall has to be completely meshed. Finally the substrate needs to be treated with MCG.

#### Rough-casting or cement levelled walls

Firstly the substrate has to be dry and clean. The residual moisture of the surface has to be lower than 4%. When this is the case the surface can be treated with Stone Age MCG. If necessary, S+A Sealing Mortar can be used for sealing the surface.

#### Plaster or Plaster blocks

The residual moisture content has to be below 4% before applying Beton Ciré Originale. After this the surface can be treated with Stone Age MCG. S+A Dichtmortel can be used as a levelling mortar which needs to be completely meshed.

#### NOTE:

*Plaster or Plaster blocks are basically not suitable for a wet areas.*

#### Wall tiles

Loose tile or parts of the tiles need to be removed. The larger parts need to be filled with a shrink-free mortar (Ardex A950). After this, the tiles can be sanded and primed with Stone Age MCG.

One hour after the joints have been sealed, the surface can be levelled with S+A Sealing Mortar which needs to be completely meshed. After this the surface can be treated with Stone Age MCG.

#### Wedi Plates

Wedi plates need to be levelled out with a shrink-free mortar, S+A Sealing Mortar for example, and needs to be completely

meshed. After this the surface can be treated with Stone Age MCG.

The cement has to be mixed dry with the pigment. After this, the mixed substance of cement and pigment can be mixed with the Resin for the first layer of Beton Ciré Originale. The mixed substance can be sieved to prevent pigment stripes. When mixing the cement and pigment substance with the Resin, a mixing ratio of 4kg of mortar to 1kg of Resin should be maintained. Per m2 approximately 2kg of mortar is needed for two layers. Do not mix more than is necessary for the surface to be treated and never mix more than can be processed in 30–40 minutes. When mixing electronically, always use a small mixer and mix briefly at a low speed.

**NOTE:**

*For all processed products the manufacturer's stated drying time must be respected. All cement-bound plaster layers need 48 hours to dry.*

**APPLYING BETON CIRÉ ORIGINALE (day 2)**

Beton Ciré Originale should be applied with a thickness of 2-3mm. It is recommended to never apply more than 5 mm. The look of the Beton Ciré Originale is determined by the hand of the applicator.

The first layer should be applied with a spatula or a trowel. The Beton Ciré Originale should be applied in as thin as possible layer. The thickness needs to be thinner than 2mm. It is easiest to finish one surface at a time and work on opposing surfaces first. Beton Ciré Originale needs 15 to 45 minutes to be touch dry.

When first layer is touch dry the second and last layer of Beton Ciré Originale can be applied. Again, apply a thin layer of the Beton Ciré. Both layers together should approximately be 3mm thick. After applying the second layer the surface needs to dry for 24 hours. After the 24 hours, the surface needs to be sanded with grit size 80-120. Use a round, eccentric sander for this.

**NOTE:**

*Sanding for too long and in the same place can cause dark spots.*

**FINISHING BETON CIRÉ ORIGINALE**

The drying time for Beton Ciré Originale is 3-5 days by a residual moisture content of less than 4%.

After the Beton Ciré had been allowed to dry for the 3-5 days, the Multi Impregnation must first be applied. This is the standard sealer which is used for the finishing of Beton Ciré Originale applications. The Multi Impregnation can be applied with a foam roller. Multi Impregnation needs to dry for at least 12 hours. After 12 hours, the 2K-PU seal layer can be applied with a short-pile fur roller.

It is recommended to roll the applied layer thoroughly over to prevent strips. Apply at least 80 gram per m2. If this is not possible in one layer, apply another layer after 12 hours but before 24 hours after applying the first layer. Sand this layer with grit size 120 for a good adhesion. Allow the sealer to harden for 5 to 7 days.

**BETON CIRÉ ORIGINALE FLOOR FINISH**

Floors on which Beton Ciré Originale is applied should always be clean, dry and free of oils, fats or other contaminants.

**Cement floor or concrete floor**

The residual moisture of the floor has to be lower than 4%. If there is underfloor heating, the heating protocol must be followed.

After this old concrete floors needs to be sanded. Edgefoam or foil that is applied to prevent shrinkage or expansion must not be removed or filled.

After the floor is checked on crack formation, the floor should be meshed completely and filled with Epoxy resin. Apply one layer of Epoxyresin and sand it off with 0.1 to 0.3mm Quartz sand.

**Calcium sulphate or anhydrite floors**

The residual moisture content has to be below 0.5%. If there is underfloor heating,

the heating protocol must be followed. Remove the sinter layer by sanding it off. For the next steps see 'Cement floor or concrete floor'.

#### Dry cementboard floor

The floor must be laid, glued and screwed according to the guidelines of the manufacturer. Firstly, lightly sand the floor and clean it thoroughly. After this, the first layer of epoxy (+/- 300gr per m<sup>2</sup>) can be applied. Sand this layer lightly with grit size 40 or 60. Thoroughly clean the floor again and apply the second layer of epoxy. Finally, the floor need to be sanded off with 0.1 to 0.3mm of Quartz sand.

#### Tile floor

Firstly, the tiles need to be sanded with a diamond grit. Take into account that the expansion joints and the edge foam or foil, that has been applied for shrinkage or expansion, is not removed or adjusted.

After this, the floor needs to be checked on cracks. A crack should be meshed completely and filled with Epoxy resin. Approximately 500 grams per square meter should be taken into account here. The floor need to be sanded with grit size 40 or 60 after this. After the second layer of epoxy is applied, the floor need to be sanded off with 0.1 to 0.3 mm Quartz sand.

#### Non-flat floors

The floor needs to be sanded with a Diamond Sander and loose tiles and/or old glue residue must be removed. After this the floor must be made dust-free before the primer (Ardex P3) can be applied.

When the primer is dried the plaster-based levelling compound can be applied. The residual moisture content has to be below 0.5% before the levelling compound can be applied.

For the next steps see 'Calciumsulphate or anhydrite floors'. Be aware that the MCG-Primer layer must be replaced with one layer of Epoxy. This is because of the strong suction of the surface.

#### *NOTE:*

*For all processed products the manufacturer's stated drying time must be respected.*

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The first layer should be applied with a spatula or a trowel. The Beton Ciré Originale should be applied in a as thin as possible layer. The thickness needs to be thinner than 2mm. It is easiest to finish one surface at a time and work on opposing surfaces first. Beton Ciré Originale needs 15 to 45 minutes to be touch dry.

When first layer is touch dry the second and last layer of Beton Ciré Originale can be applied. Again, apply a thin layer of the Beton Ciré. Both layers together should approximately be 3mm thick. After applying the second layer the surface needs to dry for 24 hours. After the 24 hours, the surface needs to be sanded with grit size 80-120. Use a round, eccentric sander for this.

#### *NOTE:*

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#### **FINISHING BETON CIRÉ ORIGINALE**

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After the Beton Ciré had been allowed to dry for the 3-5 days, the Multi Impregnation must first be applied. This is the standard sealer which is used for the finishing of Beton Ciré Originale applications. The Multi Impregnation can be applied with a foam roller. Multi Impregnation needs to dry for at least 12 hours. After 12 hours, the 2K-PU seal layer can be applied with a short-pile fur roller.

It is recommended to roll the applied layer thoroughly over to prevent strips. Apply at least 80 gram per m<sup>2</sup>. If this is not possible in one layer, apply another layer after 12 hours but before 24 hours after applying the first layer. Sand this layer with grit size 120 for a good adhesion. Allow the sealer to harden for 5 to 7 days.

### **BETON CIRÉ ORIGINALE FURNITURE FINISH**

First of all - as a substrate and for good adhesion - a construction must be made of plywood, MDF or waterproof chipboard. The parts can then be glued with PU effervescent glue and screwed together. After this, a thin layer of epoxy resin should be applied and the surface should then be sanded with 0.1 - 0.3 mm Quartz sand (fire-dried).

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When first layer is touch dry the second and last layer of Beton Ciré Originale can be applied. Again, apply a thin layer of the Beton Ciré. Both layers together should approximately be 3mm thick. After applying the second layer the surface needs to dry for 24 hours. After the 24 hours, the surface needs to be sanded with grit size 80-120. Use a round, eccentric sander for this.

#### **NOTE:**

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### **APPLICATION CONDITIONS:**

- Required room temperature of 18°C - 25 °C.
- Required material and surface temperature of 12°C -18°C.
- Relative humidity in the room of 40%-70%.
- Residual moisture cement screed:
  - With underfloor heating: max 2,3%
  - Without underfloor heating: max 1,5%
- Residual moisture calcium sulphate floor:
  - With underfloor heating: max 0,5%
  - Without underfloor heating: max 0,3%

### **CONSUMPTION:**

With 2 kilogram of Beton Ciré Originale it is possible to treat a surface of 1m<sup>2</sup> with 2 layers.

### **STORAGE PERIOD:**

Beton Ciré Originale can be stored up to 6 months from date of manufacture, provided it is stored closed and dry in the original container and is not exposed to moisture or frost..

### **SPECIAL DESCRIPTION:**

Beton Ciré Originale contains lime. Avoid contact with eyes and skins as well as inhalation of dust. Always use rubber gloves and safety glasses. Keep Beton Ciré Originale out of reach of children. Empty buckets must be disposed in accordance with applicable legal regulations.

### **ADDITIONAL HEALTH AND SAFETY INFORMATION:**

For information and advice on the safe handling, storage and disposal of chemical products, users of these products should refer to the most recent Material Safety Data Sheet with regard to physical, ecological, toxicological and other safety-related data.

### **DISCLAIMER:**

This information and in particular the recommendations regarding the application and use of Stone Age products, is provided in good faith based on our current experience(s) and product knowledge. This information applies with respect to products stored, handled and applied under normal conditions and correctly, in accordance with Stone Age's advice. In practice, differences in materials, substrates and actual (working) conditions on site are such that no guarantee of merchantability or suitability for a particular purpose, nor any liability (arising from any legal relationship whatsoever) can be derived from this information or from any advice (whether verbal or written) given by Stone Age. The user of the product should test the suitability of the product for the intended application and purpose. Stone Age reserves the right to change the properties of its products at any time. The property rights of both Stone Age

and third parties must be respected. All orders to Stone Age are subject to the currently applicable sales and delivery conditions.

### **CE MARK:**

The harmonized European standard EN 13 813 „Screed material and floor screeds – screeds – material properties and requirements” specifies requirements for screeds for use with floor constructions. Structural screeds or coatings, for example those contributing to the load bearing capacity of the construction, are excluded from this standard. Both synthetic resin floors and cement-bonded screeds are covered by these specifications. They must be CE-labelled according to Annex ZA. 3, Table ZA. 1.5 and 3.3 and comply with the requirements of the Construction Products Directive (89/106)



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