LUXURY CONCRETE

Concrete Pox.

Concrete Pox is the range of epoxy microcement (aggregate + epoxy resin) designed to coat high wear surfaces. It is a coating suitable for floors and walls of industrial buildings, shops, offices or garages.

Technical data

- Colours: Sand, Clay, Pecan Nut, Brown Sugar, Canella, Mink, Cedar, Graphite, Midnight Black, Ink Black, Steel Grey, Fossil, Grey Stone, Silver Coin, Elephant y Peanut.
- Finish: Matt
- Cure: 7 - 14 days
- Total solids (A+B): 87 ± 2%
- Shore hardness: 80-87

Characteristics of Comp. A

Based on cycloaliphatic anime adducts and selected aggregates.

- Solids: 82 ± 2 %
- Density: 1,65 ± 0,02 g/mL
- Viscosity: 45 - 65 Pa•s at 25ºC
- pH: 9,5 ± 1

Characteristics

- Characteristics.
- Very natural mineral finish.
- As a seamless continuous coating. Excellent workability.
- High adhesion to mineral substrates, even on tiles.
- Very good resistance to chemical agents: ammonia, water, oil, soft drinks, coffee, etc. Sensitive to vinegar and other organic acids.
- Very good resistance to abrasion.More waterproof than conventional microcement systems.
- Recommended for use in interiors where good mechanical performance and a good decorative finish are required.
- All 4 granulometries are suitable for floors and walls.

Characteristics of Comp. B

Epoxy resin BPA.

- Solids: 100%
- Viscosity: 8 -10 Pa•s
- Flash point: 266ºC
- Density at 25ºC: 1,16 g/mL

Consumption

The approximate consumption is:

- Extra: 1,40 Kg/m^2 (1 coat)
- Basic: 1,20 Kg/m^2 (1 coat)
- Medium: 0,70 Kg/m^2 (1 coat)
- Thin: 0,55 Kg/m^2 (1 coat)

Mixing

Homogenise component A of each Concrete Pox with mechanical agitation at low speed. Add Concrete Pox Speed Up and mix
The proportions of the mixture are as follows:

- For Concrete Pox component A of 18 Kg, add 140 g of Concrete Pox Speed Up.
- For Concrete Pox component A of 4,5 Kg, add 35 g of Concrete Pox Speed Up.
- 1,8 kg test kit component A Concrete Pox of 1,8 Kg, add 14 g of Concrete Pox Speed Up.

Pigment the resulting mixture with the Colorcrete Mix colour toner chosen from the Concrete Pox colour chart.

For colouring in other shades, the percentage of pigment paste to be added is as follows:

- For Concrete Pox Thin, 4% of Colorcrete.
- For Concrete Pox Medium, Concrete Pox Basic and Concrete Pox Extra, 3% of Colorcrete.

Then add the corresponding Concrete Pox component B and mix the 2 components by stirring at low speed in the ratio of 9 parts (in kg) of component A in colour to 1 part of component B. The container maintains the mixing proportions.
Do not add Colorcrete Mix to component B, as it is not pigmentable.
Caution: Component B may solidify at ambient temperatures below 15°C. Heat the product with a heating blanket or similar.
Use immediately afterwards.

Uses and fields of application

High-performance microcement for use as a continuous coating for floors and walls in interiors. It cannot be laid on underfloor heating.
Especially recommended for areas with high wear and tear such as garages, Concrete Pox warehouses as well as floors in galleries, shops, waiting rooms, corridors, offices. And in general in those areas with pedestrian traffic, where a natural finish with good resistance is sought.
Available in four granulometries: Extra, Basic, Medium y Thin. All four granulometries are suitable for floors and walls.

Preparing the substrate

Before applying Concrete Pox microcement, the substrate must be properly prepared. It must be dry, clean and free of dust, grease or dirt. In the case of being previously varnished or painted, the previous coating must be removed, especially if it is damaged or deteriorated.This can be done by sanding or stripping, making sure to leave the surface in good condition. If separation, consolidation or joint sealing is required, proceed before priming.. On mineral or cementitious surfaces it is recommended to use the Primacrete family. In the case of humidity, use Impoxy®.

Application

Homogenise component A of each Concrete Pox with mechanical stirring at low revolutions, add Concrete Pox Speed Up and mix. To pigment, add to the mixture the Colorcrete Mix colour toner from the Concrete Pox colour chart.

Then add the corresponding component B to the prepared component A and mix with a mechanical stirrer at low revolutions. The mixing ratio is: 9 parts of A to 1 part of B, the container is already prepared with these proportions.

Do not add Colorcrete Mix to component B, as it is not pigmentable.
To pigment Industtrial with other colours, the percentage of pigment paste to be added is as follows:

- For Concrete Pox Thin, 4% of Colorcrete.
- For Concrete Pox Medium, Concrete Pox Basic and Concrete Pox Extra, 3% of Colorcrete.

Caution: Component B may solidify at ambient temperatures below 15°C. Heat the product with a heating blanket or similar. Use immediately afterwards.

For applications on floors and walls it is recommended to apply 2 coats of Concrete Pox Extra or Concrete Pox Basic and then 1 coat of Concrete Pox Medium o Concrete Pox Thin, leaving 1 mm layers for each coat of product.

After each coat, a soft sanding with 220 grit sandpaper is recommended. After the finishing coat and before sealing, a sanding with 400 grit sandpaper is recommended.

The drying time of each coat will depend on the environmental conditions at the time of application. At temperatures between 15-23ºC the drying time between coats can be 8-12 hours. At temperatures between 23-35ºC, the drying time can vary between 4-6h. The ambient humidity will also be a determining factor, as at high humidities (>70% w/w) the drying time will be slower.

The final curing time will also depend on these environmental conditions, being 7-14 days depending on these conditions. It is not recommended to apply at ambient and substrate temperatures below 15ºC.

Before sealing the Concrete Pox microcement, it is recommended to let it dry for at least 48 hours. It can be sealed with three coats of Concrete Finish One varnish (3 hours drying time between coats) or two coats. Leave for at least one week to achieve maximum results.

Packaging

It is supplied in containers of:
- 4,5 Kg + 0,5 Kg + 35 g de A + B + C to pigment 100 g of Colorcrete Mix.
- 18 Kg + 2 Kg + 140 g de A + B + C to pigment 400 g of Colorcrete Mix.

Storage conditions

The product should be stored in its original closed container and protected from the weather at temperatures between 15ºC and 30ºC, in a dry and well ventilated place, away from heat sources and direct sunlight. The shelf life is 1 year from the date of manufacture, if stored properly.

Maintenance

Allow the Concrete Finish varnish to dry for at least one week before wetting. Polyurethanes reach their full chemical properties after two weeks.
Do not use detergents or cover before two weeks.
Clean with a damp cloth and our Concrete Clean detergent or, if not, with neutral soap to prolong the life of the sealer. Do not use aggressive cleaning products such as bleach, acetone or hydrochloric acid.

Special precautions

Follow the instructions in the safety data sheet.
It is recommended to comply at least with the following measures:
- Good ventilation.
- Protective goggles to prevent splashing.
- Rubber gloves.
- In case of contact with eyes, flush with plenty of water for 15 minutes.
- In case of contact with skin wash with soap and water.
- Do not swallow. If swallowed, do not induce vomiting and seek medical attention
- immediately. Do not dilute with water.

Empty containers must be disposed of in accordance with current legislation.
Keep out of the reach of children.
The product contains silica. Silica particles (respirable fraction) may be released during sanding and the use of respiratory protection is recommended.

Pot life of the product

The shelf life of the mixture (component A + component B) is 60 minutes at about 20°C.

Cleaning of tools

Tools are washed with soap and water immediately after use.