

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, stores, 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 and Peanut.
- Finish: Matt
- Cure: 7 - 14 days
- Total solids (A+B): 87 ± 2%
- Shore hardness: 80-87

Properties

- Very natural mineral finish.
- As a continuous seamless coating. Excellent workability.
- High adhesion to mineral substrates.
- 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 impermeable than conventional microcement systems.
- Recommended for use in interiors where good mechanical performance and a good decorative finish are required.
- The 4 granulometries are suitable for floors and walls.

Mixing

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

- For Concrete Pox component A of 18 kg, add 1.15 Kg of component B Concrete Pox.
- For Concrete Pox component A of 4.5 kg, add 0.3 Kg of component B Concrete Pox.
- For Concrete Pox component A of 1.8 kg, add 0.12 Kg of component B Concrete Pox.

Pigment the resulting mixture with the Colorcrete Mix colour toner chosen from the Concrete Pox colour chart. It is also possible to pigment component A first and then mix it with component B.

Uses/Fields of application

High-performance microcement for use as a continuous coating for interior floors and walls. It cannot be placed on radiant floors.

Especially recommended in areas with high wear as garages and warehouses.

In addition to floors of galleries, stores, waiting rooms, corridors, offices. And in general in those areas of pedestrian traffic where a natural finish with good resistance is sought.

Available in four granulometries: Extra, Basic, Medium y Thin. The four granulometries are suitable for floors and walls.

Premium coatings.

Characteristics of Comp. A

Based on cycloaliphatic amine adducts.

- Solids: 82 ± 2 %
- Density: 1.65 ± 0,02 g/mL
- Viscosity: 45 - 65 Pa·s at 25°C
- pH: 9,5 ± 1

Characteristics of Comp. B

Water-based epoxy resin.

- Solids: 100%
- Viscosity: 8 -10 Pa·s
- Flash point: 266°C
- Density at 25°C: 1.16 g/mL

Consumption

The approximate consumption is:

- Extra: 1.1 Kg/m² (1 coat)
- Basic: 0.9 Kg/m² (1 coat)
- Medium: 0.55 Kg/m² (1 coat)
- Thin: 0.45 Kg/m² (1 coat)

Packaging

It is supplied in containers of:

- 18 Kg Comp. A + 1,15 Kg Comp. B
- 4,5 Kg Comp. A + 0,3 Kg Comp. B
- 1,8 Kg Comp. A + 0,12 Kg Comp. B

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 reparation, 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. 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: 9,4 parts of A to 0,6 part of B.

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 or Concrete Pox Thin leaving layers of 1 mm for each coat of product.

After each coat, a soft sanding with 220 grit sandpaper is recommended 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 15-23°C the drying time between coats can range from 8-12h. At temperatures between 23-35°C, the drying time can vary between 4-6h. The ambient humidity will also be a determining factor, since at high humidities (>70% w/w) the drying the drying 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 15°C.

Before sealing the Concrete Pox microcement it is recommended to let dry at least 48h. It can be sealed with any varnish of the Concrete Finish family. It is recommended to apply two coats of Concrete Finish WT varnish (24 hours drying time between coats). Leave to act for at least one week to achieve maximum performance.

Storage conditions

The product should be stored in its original closed container and protected from the weather at temperatures between 15°C and 30°C, 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.