ConCoat Datasheet

ConCoat is a two-component polymer modified cementitious waterproofing coating designed to waterproof and protect concrete structures such as silos.

Technical Data

Type	Modified cement-based coating
Colour	Grey
Pot life	30 minutes at 30°C
Working time after mixing	30 minutes at 30°C
Initial set	40 to 60 minutes depending on weather
Mixing water temperature	Supplied as twin-pack | Mix both parts together
Mixing liquid temperature	5°C to 25°C
Application temperature (ambient)	5°C to 25°C
Surface temperature	5°C to 25°C
Min application thickness	1mm
Max application thickness	2mm
Protection during application	Wind & sun barriers

Purpose

For creating a thin flexible cement coating to be applied directly onto concrete structures such as silos to protect and waterproof.

Advantages

- Ideal for waterproofing the inside of water containing structures such as reservoirs.
- Protection of silos and off-shutter concrete against water ingress and spalling**.**
- **ConCoat** will bridge hairline cracks less than 0.3mm in width.

Limitations

Do not use if freezing conditions are expected within 24 hours or if rain is expected.

Specifying

Apply two coats of **ConCoat** using a large paint brush, roller or airless sprayer to a hard, clean surface that has been pre-dampened with water prior to applying the first coat (surfaces should not be glistening wet). Allow first coat to dry for at least 4 hours before applying a second coat.

Site Work

Storage

ConCoat has a shelf life of 6 months if kept in a dry cool place in the original packaging. Do not expose the product to any freezing conditions during storage.

Weather

Protect work from rain for 12 hours and frost for 24 hours.

Suitable Preparation

Ensure that all cracks, holes and loose areas are properly repaired before application. All applicable surfaces to be structurally sound and free from grease, oil, wax, wall paper glue, dust or anything that might interfere with adhesion. Remove dust and loose defective paint if any. Scrub the surface using a suitable concrete de-greaser and flush well with clean water. Allow to dry properly.

Mixing

Remove the liquid component from the packaging and pour contents into a clean 20 litre bucket. Gradually add the powder portion while stirring using a paddle mixer. It is imperative to ensure the mix is lump free. Mix for approximately 3 minutes to ensure all additives have dispersed properly.

Application

Thoroughly pre-dampen the substrate with water only using a brush roller or pump up sprayer. Porosity will vary the amount of dampening needed before application. As soon as the water has soaked in, painting can commence. Note, any excess or glistening water must be removed first.
Apply the first coat to a coating thickness of 1mm and allow to dry for at least 4 hours. Once suitably dry, apply the second coat. NOTE: never add more water to the mixed material. Rather pre-wet the substrate again to ensure an even coat. Refer to Weather section for completed work.

Cleaning

Immediately after the application, clean all equipment with clean water.

Suitable application equipment

- Brush – Soft bristle painters roof brush 120mm - 220mm wide.
- Roller – A medium mohair roller, then finished off with a trowel or brush to ensure a smooth uniform coating.
- Airless Sprayer.

Curing

Allow to air cure for at least 3 days at 20 degrees. Lower temps would require longer cure times.
Do not mist spray or apply any curing membranes.

Coverage

15kg kit will cover approximately 4m² for 2 coats at 1mm thick per coat.

Packaging

15kg twin-pack.

Manufacturer's Warranty

Cemcrete warrants that the products manufactured by it shall be free from material defects and will be consistent with its normal high quality. Should any of the products be proven defective, the liability to Cemcrete shall be limited to replacement of the product ex-factory. Cemcrete makes no warranty as to merchantability or fitness for a particular purpose and this warranty is in lieu of all other warranties expressed or implied. The user shall determine the suitability of the product for his intended use and assume all risks and liability in connection therewith.