

CONGUARD CM210

Two-component, flexible, cement-based, waterproof coating



DESCRIPTION

CONGUARD CM210 is a two component, cement-based coating, comprising of pre-weighed polymer modified powder & a liquid components, that when mixed provides an elastomeric waterproof coating with exceptional crack bridging capabilities. **CONGUARD CM210** provides a durable, flexible coating with excellent adhesion characteristics and is non-toxic making it suitable for use in contact with potable water.

USAGES

- Waterproof lining for swimming pools, water tanks, dams, and canals
- Wet areas waterproofing while receiving tile adhesives and other renders
- Protecting concrete and masonry structures against ingress of chloride ions and carbonation
- Negative hydrostatic pressure resistance

ADVANTAGES

- Non-toxic, approved in contact with drinking water
- Flexible, crack bridging
- Waterproofing
- Withstands high positive and negative pressures
- Easy application by brush, roller trowel or spray
- Bonds to green or damp concrete
- Effective barrier to sulphates and chlorides
- Excellent bond to concrete and masonry

TECHNICAL DATA

CONGUARD CM210	Typical values
Mixed appearance	Grey liquid
Pot Life	30 min
Mixed Density @25°C	1.75 kg/cm ³
pH (Comp. B)	7
Recoat Time	4-24 hours
Pull Off Strength (BS 1881 Part 207)	1 N/mm ²
Crack Bridging Ability (ASTM C 838:95)	1.5 mm
Elongation (ASTM D412:98)	60%
Permeability Resistance	100%
Non-toxicity @day 28 (BS 6920:2000)	Passed

USAGE INSTRUCTIONS

1. Surface preparation

Concrete surfaces particularly if new; should be fully cured with a maximum residual relative humidity (RH) of 75%., clean and free from contamination such as dust, oil, grease, organic growth, release agents and curing compounds.

Prepare concrete surfaces preferably by mechanical methods such as angle grinding to remove laitance, curing compounds and other loose materials to provide a mechanical key for **CONGUARD CM210**.

2. Priming

Priming is not normally required however please ensure the substrate is pre-soaked, clean, sound and free from contamination.

3. Mixing

Place the liquid (Component B) in a suitable empty container with sufficient volume to accommodate the mixed material.

Gradually add the powder (Component A) to the liquid in the container and mix continuously for 4-5 minutes using a slow speed drill and paddle or forced action mixer, until a homogenous consistency is achieved.

Leave the mixed material to stand in the container for several minutes prior to application.

No additional water should be used as this will change performance of the mixed material.

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Coverage

3-4 kg/m²/2 coats
 12 m²/1mm/23 kg set

4. Application

Minimum of 2 coats of **CONGUARD CM210** are recommended.

Apply first coat using brush or roller in a continuous uniform coating, to cover theoretically one 1.5-2 kg per m² for two coats.

Apply the second coat in the similar manner of first coat by at right angel application, allowing at least 4 hours drying between each coat.

For edges subjected to high hydrostatic water pressure, prepare Cant strips using a suitable recommended product of **PIOREP** OR **PIOMORTAR** range.

Apply mesh over it after repair product is cured, then apply **CONGUARD CM210** as instructed before.

5. Curing

Allow **CONGUARD CM210** to cure fully 4 days at least before testing waterproofing by flooding the area.

PACKAGING

CONGUARD CM210 is supplied in 23 kg set, component A & B.

- **A** powder
- **B** liquid

HEALTH & SAFETY

Before applying **CONGUARD CM210**, all safety protections should be worn during application, such as safety goggles and rubber gloves to avoid any harmful accidents.

If **CONGUARD CM210** is splashed to skin, it must be washed off by water and soap at once, and if to the eyes seek medical attention immediately.

STORAGE & SHELF LIFE

Keep **CONGUARD 210** dry and in shaded place of a temperature range 10 - 35°C, shelf life of the material is 12-months.

TECHNICAL SERVICE

The technical service department of Arkaz is available to assist in the correct and best use of our products, these resources and advice are at your disposal entirely without obligation. Please contact us via our website arkaz.com

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