

Comtech Proof CR2

Two part acrylic based elastomeric waterproof coating.

Description:

Comtech Proof CR2 is a two component acrylic modified coating that requires only on site mixing to form the ideal product for waterproofing and protecting concrete structures against vapor, ingress of chloride ions, attacks of acidic gases and alkalis. It cures to form a flexible coating having excellent waterproofing properties.

Comtech Proof CR2 is a blend of minerals, selected fillers, polymers and graded silica sand which is in the powder form.

The liquid contains acrylic co-polymers and wetting agents.

Primary uses:

Used as a waterproofing and protective coating for the following structures:

- As a waterproof coating for roofs and wet areas.
- As waterproof lining for water retaining structures.
- Protection of exposed concrete structures like bridge decks against carbonation and chloride attack.
- Inverted roofs, lift and inspection pits, swimming pools, Spillways.
- Backing on marble sand granites to prevent the ingress of moisture.
- As protection for concrete surfaces from carbonation and chloride attack.

Coverage:

0.8-1.2kg/m² per coat.

Two coats are recommended.

Packaging and storage:

Comtech Proof CR2 is supplied in premeasured units of 15kg double pack; All Comtech products should be stored in a

dry shaded area, protected from breakage, deterioration and contamination.

Typical properties:

Color	White
Density	1500kg/m ³
Toxicity	Non toxic
Elongation	> 40%
Initial surface absorption	>95% reduction
Pot life	45 min
Tensile strength	>8 N/mm ²
Adhesion strength	>0.5 N/mm ²
Crack bridging	>1mm
Drying time	4-6 hrs
Full cure	3 days
Waterproofing test	Passed
Application temperature	5 to 45 C ⁰
Service temperature	-5 to 80 C ⁰
UV resistance @1000 Hrs	No deterioration

Advantages:

- Good flexibility. Thermal co-efficient of expansion similar to that of concrete.
- Nontoxic, therefore suitable for use in potable water applications.
- Good adhesion to both, porous and non porous surfaces.
- Suitable for light pedestrian traffic.
- Excellent durability to long term weathering effect and UV.

Method of use:

The application temperature should be between 5°C to 45°C.

Application procedures may vary slightly depending upon site conditions.

The general recommended guidelines for the application of the coating system is as follows:

Surface preparation

The surface must be structurally sound and free of oil, grease, dust and other contaminants which will affect the bonding.

Any structural cracks shall be repaired with a suitable repair mortar.

The surface to be treated should be presaturated with water prior to application. However, any standing water shall be removed prior to application.

Mixing

Comtech Proof CR2 is supplied in two pre-measured parts which just requires on site mixing.

Do not mix more material than that can be used within the pot life.

Part mixing can be carried out by mixing 2 parts of powder with 1 part of liquid (by weight).

Pour the liquid in to a suitable container and slowly add the powder to the liquid.

Mix the contents using a slow speed drill (300-400rpm) fitted to a proprietary paddle mixer till a homogenous, lump free and creamy consistency is achieved.

Application

It is recommended to apply **Comtech Proof CR2** in two coats to Provide a minimum thickness of 1mm for heavily trafficked areas and water retaining structures.

Each coat shall be applied @ 0.8-1.2kg/m² which will give a dry film thickness of 0.5-0.7mm.

The coating can be applied with a roller or by an airless spray of nozzle size of 3-4mm and a pressure of 6-7bar.

After the application of the first coat and whilst the coating is still wet, embed a glass

fibre mesh at all corners and other joints for added reinforcement.

The second coat shall be applied after the first coat dries off completely (4 hours @ 25°C, 50%RH).

For general waterproofing and protection against carbonation and alkali attacks, the coating can be applied in 1mm thickness.

Protection:

Adequate protection needs to be provided for the coating in the following conditions:

- Areas subjected to mechanical abrasion.
- Flowing water areas.
- A fiber mesh shall be embedded in between two coats for water retaining areas which are >1m in depth.

Health and safety:

Comtech Proof CR2 does not classified in the hazardous materials; however it should not be allowed to come into prolonged contact with skin and eyes.

The normal safety precautions (hand gloves & safety goggles) are recommended for handling.

The first aid if some harm happened with eyes in to wash with water.

WARRANTY STATEMENT: The information given here is based on our knowledge, and we believe it to be true and accurate.

We assume no responsibility for the use of these information, recommendations or suggestions.

Users should always refer to the most recent issue of the technical data sheet for the product concerned, copies of which will be supplied on request.

