

Centrament Proof CWP (Formerly known as MoyaProof CWP) Liquid Waterproofing System by Crystallization

Description

Centrament Proof CWP is a cementitious slurry waterproofing system by crystallization. The active chemicals in the applied Centrament Proof CWP reacts with the free lime and moisture present in the capillary track of the concrete to form an insoluble crystalline complex. These crystals block the capillaries and minor shrinkage cracks in the concrete to prevent any further water ingress.

Advantages

- Suitable for use in contact with potable water
- Chemicals remain dormant and are reactivated whenever there is a presence of moisture
- Time saving, fast tracks projects
- Can be applied to freshly laid green concrete by dry shake method
- Can be applied on the negative side of water retaining or underground structures
- Does not require protection from backfill
- Economical to apply

Application

Areas of application

Centrament Proof CWP can be used for various concrete elements in structures such as marine and coastal structures, rafts, precast panels, water storage tanks, highways, runways, roofs, decks, bridges, cut & cover tunnels, silos, carparks, swimming pools, pipes, lift pits, etc.

Surface Preparation

Concrete surfaces to be treated must be clean and free of laitance, dirt, films, paint, coatings or other foreign matter. The surfaces must also have an open capillary system for the Centrament Proof CWP treatment. If surfaces are too smooth the concrete should be acid etched, lightly sandblasted or waterblasted. Structural defects such as cracks, faulty construction joints and honeycombs should be routed out to sound concrete & repaired. Centrament Proof CWP is not designed for use in expansion joints or "moving" cracks. Horizontal surfaces should preferably have a rough wooden float or broom finish. All surfaces should be saturated with water prior to application..

Mixing

Mix one bag of 20 kg with 10.5-11.2 ltrs of clean water. Always add powder to water, mix using a slow speed drill fitted with a paddle until a smooth and lump free consistency is obtained. Do not rework stiff material by adding more

Application

Slurry coat: Apply Centrament Proof CWP with a stiff fiber brush. Scrub well into the damp surface, filling all pores and finish with final strokes in one direction. After the first coat has set but while it is still green, apply a second coat. If this is not possible, pre wet first coat before application of the second coat. Application is recommended on concrete that is at least two to four weeks old.

Dry Shake Method: For Newly Poured Concrete, use Centrament Proof CWP directly from the bag. Distribute the powder evenly over freshly poured concrete at a spread rate of 4-5 kg/m² before the final trowelling. It is recommended to distribute approximately 50% of the powder in one direction with the remaining 50% at right angles to the first application. Release the powder as close to the wet surface of concrete as possible. Finally trowel the concrete to the required finish. For positive side waterproofing, Centrament Proof CWP can be sprinkled on horizontal formwork. Concrete should be poured directly on the well spread material.

Leaking Cracks: Centrament Proof CWP can be mixed to dry mortar consistency and used to fill the cracks. If there is any active water leakage then Centrament Proof CWP can be mixed with Centrament Proof Plug in the ratio 1:1 and fixed at the point of water leakage to stop the flow of water. Over such treatment, two coats of Centrament Proof CWP can be applied at the said rate of application.

water. Only mix sufficient quantity of material that can be used within 30 minutes

Curing

Applied **Centrament Proof CWP** should be protected against moisture evaporation by sun and wind. Careful fog/mist spraying of water should be undertaken to keep the surface damp. Alternatively the surface can be covered with, wet hessian or moist sand. Curing compounds are not recommended.

Moisture cure **Centrament Proof CWP** treated surfaces 3-4 times per day for a period of 5-7 days. Backfill material can be placed on **Centrament Proof CWP** applications after moisture curing has been completed. No protection boards are required.

OverCoating

Centrament Proof CWP treated surfaces to receive epoxy coating or to be painted must be neutralized by using buffer solution. Alternatively, after a minimum period of 21 days of application, the applied **Centrament Proof CWP** should be removed by suitable mechanical means. Any type of coating can be applied on such surface.

Limitations

Centrament Proof CWP should not be applied on dry surfaces

Yield	17.7 ltr/bag
Coverage	Dry Shake method : 4-5 kg/m ² Slurry : 8.86 m ² /bag at 2 mm thickness Actual coverage depends on porosity and texture of the substrate.

Typical Properties at 25°C		
Property	Test Method	Value
Component	-	Single
Form	-	Powder
Colour	-	Grey
Toxicity	BS 6920-1	Non-Toxic
pH	BS 1377-3	11-12
Drying Time	ASTM D2939	1hr
Recoat Time	-	2-4 hrs
Water Permeability	BSEN 12390-8	> 80% improvement over control*
Chloride Content	BSEN 480-10	Nil to BSEN 934-2

**Result of the test carried out is based on a particular concrete mix.
Contact MC technical team for more information.*

General Information	
Package Size	20 kg
Shelf Life	12 months from date of manufacture when stored under warehouse conditions in original unopened packing. Extreme temperature/humidity may reduce shelf life.
Cleaning	Clean all equipments and tools with water immediately after use. Hardened material can be removed mechanically.

Health and Safety

PPE's	Gloves, goggles and suitable mask must be worn.
Precaution	Contact with skin, eyes, etc. must be avoided. If swallowed seek medical attention immediately.
Hazard	Regarded as non-hazardous for transportation.
Disposal	Do not reuse containers. To be disposed off as per local rules and regulations.
Additional Information	Refer MSDS. (Available on request.)

Technical Support

MC Technical Services are available on request for on site support to assist in the correct use of its products.

NOTE:

It is the customer's responsibility to satisfy themselves by checking with the company whether information is still current at the time of use. The customer must be satisfied that the product is suitable for the use intended. All products comply with the properties shown on current data sheets. However, MC-Bauchemie does not warrant or guarantee the installation of the products as it does not have any control over installation or end use of the product. All information and particularly the recommendations relating to application and end use are given in good faith. The products are guaranteed against any manufacturing defects and are sold subject to MC- Bauchemie's standard terms and conditions of sale.