



MoyaProof CWP

Cementitious Slurry Waterproofing System by Crystallization

DESCRIPTION

MoyaProof CWP is a cementitious slurry waterproofing system by crystallization. The active chemicals in the applied **MoyaProof 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.

USES

MoyaProof 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 and cover tunnels, silos, carparks, swimming pools, pipes, lift pits, etc. It is an ideal replacement for the old tedious and hazardous method of preformed SBS waterproofing membrane system for basements.

ADVANTAGES

- Becomes an integral part of concrete
- Suitable for use in contact with potable water
- Chemicals remain dormant and are reactivated whenever there is a presence of moisture
- Does not require costly surface priming or levelling prior to application as for other coatings
- 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
- Forms subsurface membrane
- Economical to apply

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	> 90% improvement over control
Chloride Content	BSEN 480-10	Nil to BSEN 934-2

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 **MoyaProof 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 and repaired. **MoyaProof CWP** is not designed for use in expansion joints or "moving" cracks.



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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 25 kg with 13-14 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 water. Only mix sufficient quantity of material that can be used within 30 minutes.

APPLICATION

Slurry coat: Apply **MoyaProof 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, prewet 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 **MoyaProof 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, **MoyaProof CWP** can be sprinkled on horizontal formwork. Concrete should be poured directly on the well spread material.

Leaking Cracks: **MoyaProof CWP** can be mixed to dry mortar consistency and used to fill the cracks. If there is any active water leakage then **MoyaProof CWP** can be mixed with **MoyaProof 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 **MoyaProof CWP** can be applied at the said rate of application.

OVERCOATING

MoyaProof 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 **MoyaProof CWP** should be removed by suitable mechanical means. Any type of coating can be applied on such surface.

CURING

Applied **MoyaProof 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 **MoyaProof CWP** treated surfaces 3-4 times per day for a period of 12-15 days. Backfill material can be placed on **MoyaProof CWP** applications after moisture curing has been completed. No protection boards are required.

LIMITATIONS

MoyaProof CWP should not be applied on dry surfaces.

PACK SIZE

25 kg



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YIELD	22 ltr/bag	
COVERAGE	Dry Shake method : 4-5 kg/m ² Slurry : 11 m ² /bag at 2 mm thickness. Actual coverage depends on porosity and texture of the substrate.	
GENERAL INFORMATION	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.
HEALTH and SAFETY	PPE's	Gloves, goggles and suitable mask must be worn.
	Precautions	Contact with skin, eyes, etc. must be avoided.
	Hazard	Regarded as non-hazardous for transportation.
	Disposal	Do not reuse bags. To be disposed off as per local rules and regulations.
	Additional Information	Refer MSDS. (Available on request.)
TECHNICAL SERVICE	CONMIX Technical Services are available on request for onsite support to assist in the correct use of its products.	

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