



PACTOProof CW

Cementitious Slurry Waterproofing System by Crystallization

DESCRIPTION

PACTOProof CW is a cementitious slurry waterproofing system by crystallization ensures the total and permanent solution to water leakage, ingress or seepage in concrete structures or any cementitious substrates. The formation and development of insoluble crystal in water bearing capillaries and interstices effectively blocks the further passage of water and ensures permanent water tightness for the life of the structure.

TYPICAL USES

PACTOProof CW can be used for various concrete elements in structures such as water storage tanks, rafts, precast panels, dams, highway, marine and coastal structures, 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

- Protect concrete and reinforcement against corrosive waterborne substances
- Becomes an integral part of concrete
- Suitable for use in contact with potable water
- Does not require protection from backfill
- Can be applied to freshly laid green concrete by dry shake method
- Does not require costly surface priming or leveling prior to application as for other coatings.
- Time saving, fast tracks projects
- Can be applied on the negative side of water retaining or underground structures
- Chemicals remain dormant and are reactivated whenever there is a presence of moisture

TECHNICAL DATA (TYPICAL PROPERTIES at 25°C)

PROPERTY	TEST METHOD	VALUE
Component		Single
Form		Powder
Colour		Grey
Fresh Wet Density	BS EN 12350-6	1.70 kg/ltr +/- 0.05

PROPERTY	TEST METHOD	VALUE
Toxicity	BS 6920-1	Non-toxic
pH	BS 1377-3	11-12
Drying Time	ASTM D2939	1 hrs
Recoat Time		2-4 hrs
Water Permeability	BS EN 12390-8	>90% improvement over control
Chloride Content	BS EN 480-10	Nil to BS EN 934-2

APPLICATION INSTRUCTION

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 **PACTOProof CW** 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. **PACTOProof CW** is not designed for use in expansion joints or “moving” cracks. Horizontal surfaces should preferably have a rough wood 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 **PACTOProof CW** 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 **PACTOProof CW** 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, **PACTOProof CW** can be sprinkled on horizontal formwork. Concrete should be poured directly on the well spread material.

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

OVERCOATING

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

CURING

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

LIMITATIONS

PACTOProof CW should not be applied on dry surfaces.

PACKAGING AND YIELD

PACK SIZE 25 kg
YIELD 22 ltr/bag

COVERAGE

Dry Shake method : 4-5 kg/m²
Slurry : 11 m² /bag at 2 mm thickness.
Actual coverage depends on porosity and texture of the substrate.

STORAGE AND SHELF LIFE

Shelf Life 12 months from date of manufacture when store under warehouse conditions in original unopened packing. Extreme temperature/humidity may reduce shelf life.

EQUIPMENT CLEANING

Clean all equipment s and tools with water immediately after use.



HEALTH AND SAFETY

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.



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