

MONOTIGHT CWP



Flexible Cementitious Crystalline waterproofing compound

DESCRIPTION

MONOTIGHT CWP waterproofing is a cementitious slur-ry water-proofing system by crystallization. The active chemicals in the crystalline waterproofing compound reacts with free lime and moisture present in the capil-lary track of the concrete to form an insoluble crystal-line complex. These crystals block the capillaries and minor shrinkage cracks in the concrete to prevent any further water in-gress. it is an ideal replacement for the old tedious and hazardous method of preformed SBS waterproofing membrane system for basements

USES

MONOTUGHT CWP can be used for various concrete elements in struc-tures such as marine and coastal structures, rafts, pre-cast panels, water storage tanks, highways, runways, roofs, decks, bridges, cut and cov-er tunnels, silos, car-parks, swimming pools, pipes, lift pits, etc.

- Becomes an integral part of concrete

CHARACTERISTICS

- Has no direct 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 greed concrete by dry shake method
- Can be applied on the negative side of water re-tain-ing or underground structures
- Does not require protection from backfill
- Forms subsurface membrane
- Economical to apply

PROPERTIES

PROPERTY	TEST METHOD	VALUE
Componet	-	Single
Mixed Form	-	powder
Colour	-	Grey
Toxicity	BS 6920-1	non-toxic
PH	BS 1377-3	11-12
Drying time	ASTM D2939	1 hrs
Recoat time	-	2-4 hrs
Choride content	BSEN 480-10	Nil to BSEN 934-2

APPLICATION METHOD

Surface Preparation:

Concrete surfaces to be treated must be lean and free of laitance, dirt, films, paint, coatings or other foreign matter. The surfaces must also have an open capillary system for the crystalline waterproofing treatment.

If surfaces are too smooth, the concrete should be acid etched, lightly sandblasted or water blasted. Structural defects such as cracks, faulty construction joints and honeycombs should be routed out to sound concrete and repaired.

MONOTIGHT CWP is not designed for use in expansion joints or" moving" cracks. Horizontal sur-faces should preferably have a rough wooded float or broom finish. All surfaces should be saturated with wa-ter prior to ap-plication.

APPLICATION

Mix one bag of 20 kg with 6 to7 liters of clean water. Al-ways add powder to water, mix using slow speed drill fitted with a paddle until a smooth and lump free con-sistency is obtained. Do not rework stiff material by adding more water. Only mix enough material that can be used within 30 minutes.

Apply MONOTIGHT CWP slurry 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 and while it is still green, apply a second coat. Application is recommended on concrete that is at least two to four weeks old

CURING

Applied crystalline waterproofing slurry 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 treated surfaces 3-4 times per day for a period of 12-15 days. Backfill material can be placed on cured crystalline slurry applications after moisture curing has been completed.

No protection boards are required.

PACKING AND COVERAGE

20 kg bags

8-9 m²/bag at 2mm thickness

Actual coverage depends on porosity and texture of the substrate.

STORAGE

Store in a shade area away from direct sunlight.

CLEANING

Clean all equipment and tools with water immediately after use.

SHELF LIFE

6 months in unopened packing Safety Precautions

Avoid contact with the skin and eyes. Wear suitable protective clothing such as overalls, goggles. Use a barrier cream. on this product.

PRECAUTIONS

Eyes: in the event of accidental splashed, flush eyes immediately with warm water and obtain medical advice

Skin: wash skin thoroughly with soap and water

Inhalation: move patient to fresh air, loosen collar and keep rested.

Ingestion: do not induce vomiting, obtain immediate medical attention

For detailed handling & storage information refer to MSDS

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Starke Polymer Ltd
Plot 158, kampala uganda
Construction Chemicals

Tel + 256 709 704 421
Tel + 256 792 171 023

Email: info@starkepolymers.com
[www. Starke polymers.com](http://www.Starkepolymers.com)