TOP SEAL 100

Two Component High Flexible Cementitious Elastomeric Waterproofing

PRODUCT DESCRIPTION

TOP Seal 100 is a two component cement based waterproofing and concrete protection system for specialized structures like dams, bridges, culverts, tunnels and all hydraulic structures where the water pressures are very high .It is fully suitable for normal waterproofing requirement of terraces, park places, basement, Swimming pools, sanitary areas etc. When two components are mixed and applied, the film formed is thick elastic membrane with degree of abrasion and chemical resistance. It is most suitable for protection from chloride attacks.

USES

- Sealing and protection of bridge decks, splashing zones, tunnels, cooling towers, balconies etc.
- Protection of water sensitive backgrounds, tanking, waterproofing of suspended floors.
- As a carbonation resistant coating in repair and protection systems
- As waterproof coating on internal sides of domestic water tanks.
- To provide protection to concrete surfaces from carbonation and chloride attack.

ADVANTAGES

- Solvent free Polymer modified hydraulically setting slurry
- Crack bridging characteristics and resistant to carbonation
- Withstands chloride ion diffusion while retaining breathing capacity
- Resistant to water pressure up to 7 bars
- Suitable for underwater applications
- No curing required
- Can be applied by brush or spatulas
- Elastic and flexible membrane with high mechanical resistance
- Excellent adhesion to old and new surfaces

COVERAGE

TOP Seal 100 is available in a two-component kit of 30 kg which yields when mixed 1.8 Kg/m2/mm.

PACKING

TOP Seal 100 system available in 30 kg kit.
Powder - 20 Kg Sacks, liquid – 10 kg pails

TECHINICAL PROPERTIES

Color & Appearance	Grey Powder White Liquid
Density	1940 kg/m³
Toxicity	Nontoxic – suitable for use in contact with potable water
Setting Time	4 hours
Pot life	30 Minutes
Application Temperature	+5°C - 30°C
Mix Ratio	2:1

STORAGE

12 Months in Unopened Packaging. Protect from Rain, Direct Sunlight, Heat and Frost, Empty packs completely and dispose off carefully to protect our Environment

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APPLICATION PROCEDURE

SURFACE PREPARATION: Clean All surfaces which are to receive the coating must be free from oil, laitance, grease, wax, dirt or any other form of foreign matter which might affect adhesion.. Spalled surfaces or those containing large blow holes, cracks and other such defects should be repaired using concrete repair mortars.

Top Seal 100 when hardened produces a seamless elastic film, which is having mechanical resistance. The component Top Seal 100 is cement bound mineral modified mortar of proper grading. The second component Top seal 100 is polymer based on acrylic emulsion. The crack-bridging is about 0.7 mm in normal application thickness. Additional coats increase the crack bridging characteristics.

Top Seal 100 consists of a powder Top Seal 100 and a Liquid component Top Seal 100. The liquid component should be emptied into a clean mixing vessel and the powder slowly added to it, while mixing with a slow speed-mixing paddle (Approx. 400 rpm) until a consistent, lump free homogeneous mass is produced.

The mixing ratio is approximately 100 parts by weight of powder to 50 parts by weight of liquid. Higher temperatures shorten, and lower temperatures lengthen this time.

Top Seal 100 can be applied by trowel or brush. Before application the surface should be slightly moistened but should not be wet.

Top Seal 100 can be applied in standard thickness of 2-3mm in two coats. Maximum thickness of 4 mm is allowed and the application should be in three coats. The first coat should be carefully worked into the surface by brush in order to close the pores, allow three to four hours before the next coat. The final coat should be finished with a steel trowel. Do not use wooden or rubber-based finishing tools.

Top Seal 100 should be applied within the temperature range of 10°C to 35°C. The surface should be protected from direct sunlight, frost and rain during application. No curing is required on account of its high polymer content.

CLEANING

Clean all equipment with Thinner/water immediately after use.