



CON-SPEC WATERSEAL

PRODUCT DESCRIPTION

Con-Spec Waterseal is used on concrete and cementitious structures, to harden, prevent dusting and repair carbonated concrete problems. It addresses both porosity and alkalinity that cause most of the problems in concrete.

Waterseal has specially designed catalyst and numerous enzymes that allows it to penetrate effectively into the concrete and cementitious structures and chemically reacting with the free alkali present within the pores of the structure and transforming it into a new aero-silica gel.

Waterseal can be applied onto new or old structures. It can be use on, above or below grade as a combination curing, sealing and hardening agent. It acts as a pre-treatment for concrete and masonry structures that are to be coated. Waterseal helps eliminate dusting, chemical corrosion, scaling caused by road salt and abrasion.

SEALING

Waterseal penetrates deep into concrete, forming a chemical reaction which locks the pores from within, giving the concrete a deep, permanent seal as well as a surface seal.

HARDENING

Waterseal solidifies the component parts of the concrete into one solid mass, which increases the density, toughens and hardness. This hardening prevents dusting, pitting and scaling of concrete floors and other masonry surfaces.

CURING

Waterseal helps to eliminate hairline cracking and temperature cracking on new concrete. When applied to freshly finished concrete, Waterseal will uniformly cure the concrete through a chemical reaction as well as form a moisture barrier, which eliminates temperature cracking.

NEUTRALIZING ALKALI

As the Waterseal progressively penetrates the concrete it neutralizes the alkali and forces it to the surface where it can be washed off.

BONDING

Waterseal prepares the treated surface for paints, caulking compounds, adhesives and floor coverings and increases the bond and life of these materials. Waterseal contains no silicone and is coatable and compatible with any type of coating.

TREATMENT RESULTS

With one application of Waterseal, (poured concrete may require two applications), concrete and other masonry is cured and permanently sealed for its lifetime and is rendered highly resistant to oils, greases and most acids. The component parts of the concrete are solidified into a solid mass which increases the density, toughness, hardness and prevent dusting, pitting and scaling of the surface. The surface alkali is neutralized and efflorescence and the leaching of lime and alkali stopped. The surface is prepared for paint, adhesives and all floor coverings.

LIMITATIONS

Do not allow solution to come in contact with glass, aluminium as etching may occur. Do not use on glazed tile or glazed brick. Discoloration can occur.

USES AND APPLICATION

Swimming pools and patios	Waste treatment plant
Bridge decks and highways	Fountain and weirs
Airport runways	Warehouses and garages
Zoos and amusement parks	Basements
Food-processing facilities	Sidewalks and driveways
Multi-level parking structures	Exposed columns
Decorative concrete	Exposed panels
Dams, canals and waterways	Conduits
Concrete exposed to salt water structures	Underground concrete structures

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ADVANTAGES

- ✓ Reduces the products that produce efflorescence.
- ✓ Decreases the moisture content in concrete for a better and long lasting application of floor adhesives and surface coatings.
- ✓ Reduces freeze-thaw damage.
- ✓ Reduces saponification that attacks surface paints.
- ✓ Reduces chloride ion penetration from de-icing salts.
- ✓ Eliminates concrete and silicate dusting.
- ✓ Surface pores will be clean and open; thus, reducing the need for acid etching requirements.
- ✓ Environmentally safe, non-toxic and odorless.
- ✓ Resists hydrogen sulfate gases and acid rains.

METHODS OF APPLICATION

Spray, roll or brush to saturate the surface.

TOOLS NEEDED

Low pressure sprayer, roller, brush, bristle broom or squeegee.

SURFACE PREPARATION

Sweep all areas to be treated with a fine bristle broom, or scrub, hose off with water and let dry, to remove surface dust, dirt and contamination. Waterseal may be apply to damp surfaces as long as all puddled areas are swept away so that the Waterseal is not diluted before it is able to penetrate the surface.

NEW CONCRETE

Apply Waterseal immediately following the finishing operation and as soon as the surface is firm enough to walk on before hairline cracking and temperature cracking begins.

Thoroughly stir the Waterseal solution immediately prior to usage. Decant solution into hand pump spray can, liquid tank for power spray equipment or install drum pump directly to solution container. Spray Waterseal in a consistent pattern. Apply at a rate of 200 sq. ft. per gallon over the entire surface area and let dry for 1 hour. For areas of high traffic or exposed to high corrosion apply a 2nd coat and allow to dry. Drying time is 1 to 2 hours. If any puddling occurs broom or sweep material over surface to prevent puddles drying on surface. Newly poured surfaces require the normal curing time.

OLD CONCRETE

(All cured surfaces) All concrete surfaces to be treated should be clean off any substance or coverings that may interfere with proper penetration. Concrete surface should be cleaned and then rinsed with clean water and allowed to dry before application.

Thoroughly stir the Waterseal solution. Decant solution into hand pump spray can, liquid tank for power spray equipment or install drum pump directly to solution container. Saturate the surface with Waterseal to the entire surface at a rate of 200 sq. ft. per gallon. Let dry for 1 hour. Apply 2nd coat and allow to dry 24 hours before use. If any puddling occurs broom or sweep material over surface to prevent puddles drying on surface.

For carbonated and dusting concrete apply 2 coats at a rate of 100-150 square feet per gallon.

CLEAN UP

Clean all tools with water. Do not thin.

COVERAGE

Approximately 100-250 square feet per gallon. Coverage depends on the temperature and porosity of the concrete.

MAINTENANCE

No maintenance required.

STORAGE LIFE

Indefinite. Agitate bucket or drum before using.

CAUTIONS

Protect surrounding area from over-spray. In case of accidental contact, rinse thoroughly with water immediately. Do not apply to frozen surfaces. If product has been previously frozen, thaw completely and shake well before using. For surfaces not specified, or where concrete may have been previously sealed, we recommend testing a small area to observe for possible adverse reactions.

For painting or covering cured concrete allow 2 - 5 days before applying paint or coverings. On new concrete allow minimum 28 days for proper curing.