Valley Crystal-Proof 510

Description:

Valley Crystal-Proof 510 admixture is an integral crystalline capillary waterproofing admixture for concrete.

It is a cement-based crystalline cementitious material that reacts in concrete to form non-soluble crystalline hydration products in the capillary pores of the concrete. These crystalline hydration products effectively reduce the permeability of concrete thus reducing capillary absorption and the penetration of water and other liquids.

It is designed for use in above- and below-grade applications.

Recommended for use in:

- Foundations
- Sewage and water treatment plants
- Tanks
- Underground vaults
- Tunnel and subway systems
- Water reservoirs
- Secondary containment structures
- Below-grade parking structures
- Precast components
- Swimming pools

Benefits:

- Reduces penetration of water and other liquids
- Seals hairline cracks
- Resists positive and negative side hydrostatic pressure
- Protects against sewage and industrial wastes

Surface Preparation:

1. Surfaces must be clean and sound.
2. Water blasting is preferred for surface preparation to mechanically clean and roughen the surface, leaving the surface saturated with water.
3. Remove all oil, dirt, laitance and other contaminants.
4. Surfaces must be dampened before application

Mixing:

1. Mix 1 part clean potable water to 2.25-2.5 parts powder by volume
2. Mix thoroughly with a slow-speed drill and a paddle.
3. For larger batches, use a mortar mixer.
4. Do not mix more material than can be used in 20 minutes at 75° F (24° C) and 50% relative humidity.
5. If mixture thickens, stir to thin consistency. Do not add extra water

Application:

1. May be applied with a brush (synthetic bristle), broom or plaster sprayer at a rate of (0.83 kg/m2). Work slurry well into openings, rough surfaces, joints and routed out areas.

2. Apply second coat, when required, after first coat has reached initial set (usually within 1 hour). If first coat has dried out, moisten surface before applying second coat.

Curing:

1. Crystal-Proof 510 must remain moist to allow the crystals to form. All applications must be kept moist for a minimum of 48 hours. After initial set, moist cure using water spray. Fog-spray the treated surface 3–4 times daily for the 48-hour period. For warmer climates, more frequent spraying may be required.

2. Protect freshly applied Crystal-Proof 510 from extreme weather conditions, such as rain, strong winds, high temperatures and freezing for a period of not less than 48 hours after application.

- Full activation and effectiveness may require 2–3 weeks beyond application.

- Protect surfaces from foot traffic for 48 hours or heavy traffic for 7 days.

- Follow accepted curing procedures for optimum performance

Health, Safety and Environmental: Read, understand and follow all Safety Data Sheets and product label information for this product prior to use.

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