

KRYSTAL 2500

Powder Crystalline Waterproofing Admixture

Description

Krystal 2500 is powder-based crystalline admixture for designing a water tight concrete. It is specifically designed for use in above and below the grade applications. It ensures permanent impermeability of concrete and is used in place of surface applied waterproofing membranes for improved durability and longevity of concrete.

Application Areas

- Construction of any structure requiring excellent waterproofing properties such as bridges, dams, swimming pools, foundations, water parks, recreational facilities, tunnels and subway systems , water containment reservoirs, water treatment tanks, architectural water features such as fountains and waterfalls etc.
- Suitable for above and below the grade applications
- Suitable for all concrete applications for water impermeability
- Secondary compartment structures
- Precast, cast-in-place and shotcrete applications
- Concrete subjected to wet, harsh and aggressive environment

Features/Benefits

- Protects concrete against negative and positive water pressure.
- It is a Permeability Reducing Admixture for Hydrostatic Conditions (PRAH).
- Reduces permeability of the concrete.
- Helps to increase the compressive strength of concrete.
- Unlike coatings, Krystal 2500 when added to concrete during mixing becomes an integral part of the concrete for optimum performance
- Self-seals hairline cracks up to 0.5mm (0.02in.)
- Protects concrete against chemical attack and corrosion of reinforcing steel.
- Certified by NSF to NSF/ANSI standard 61.
- Reduced concrete shrinkage and cracking.
- Excellent resistance to waterborne chemicals.
- Protection against sewage and industrial wastes.

Mixing

The water content in any concrete mix is directly related to the porosity of the resultant concrete. Hence, the dosage depends on the amount of mixing water (aggregate moisture included) in the batch mix. Krystal 2500 is added at the rate of 0.8–1% based on weight of cement and is dependent, amongst other criteria, on the concrete formula and the reactivity of the cement. The dosage is to identify with a suitability trial.

Dosage at concrete plants:

Krystal 2500 is to be dosed into the aggregate and mixed for a minimum of 30 seconds before adding the water and cement. Subsequently mix for a minimum of 45 seconds until ready for use.

Dosage in concrete trucks:

The addition of Krystal 2500 on site (concrete truck) is not carried out as a powder but as a very aqueous suspension. The required amount of Krystal 2500 is premixed with water at a ratio of 1:1 (5 kg Krystal 2500 and 5 kg water) using a suitable vessel and stirrer and then completely emptied into the mixing drum of the truck.

KRYSTAL 2500



KRYSTAL 2500

Powder Crystalline Waterproofing Admixture

Technical Properties

Appearance	Powder
Color	Concrete Grey
VOC	Nil
Bulk Density	2.0Kg/dm ³

Curing

Follow specified curing procedures as necessary. Krystal 2500 is effective whether water curing or a curing compound used. Standard concrete placing practice in accordance with ACI recommendations or equivalent international codes must be followed to ensure optimum results.

Packaging

20Kg Bag

Shelf Life

Shelf life in unopened original containers is 12 months when stored at 70°F (21°C).

Limited Warranty

All recommendations, statements and technical data herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty either expressed or implied. User shall rely on his or her own information and tests to determine suitability of the product for the intended use and user assumes all risk and liability resulting from his or her use of the product. Nothing contained in any supplied materials relieves the user of the obligation to read and follow the warnings and instruction for each product as set forth in the current Technical Data Sheet, product label and Safety Data Sheet prior to product use away.

KRYSTAL 2500

