

Crystalline Waterproofing by Dry-Shake Method

DESCRIPTION

TIKICRYST BC is ready to use crystalline Dry-Shake powder for the waterproofing and protection of concrete.

TIKICRYST BC is new generation hydrophilic crystalline waterproofing and permeability reducing dry-shake powder, effective in enhancing concrete impermeability and durability by effectively sealing concrete surface pores and capillaries and reducing the shrinkage cracks.

It is applied as a dry shake system on to freshly laid concrete surfaces and trowelled into the concrete during the final finishing. It is best suitable for thick concrete slabs that are power trowelled during finishing.

It becomes integral part of the concrete surface thereby eliminating problems normally associated with other waterproofing, such as de-lamination, mechanical damage, wear and tear etc.

ADVANTAGES

- Resistance to extreme hydrostatic pressure from both positive and negative side.
- Permanently active waterproofing.
- Becomes integral to the concrete surface - high resistant to physical damage and deterioration.
- Does not undergo wear and tear like other waterproofing systems – zero repair and maintenance cost - highly durable.
- Allows concrete to breathe.
- Densifies concrete surface -increases durability.
- Eliminates need for other waterproofing system.
- Non-toxic and non-staining – suitable for use in potable water storage and transportation systems.

- Reduced cost when compared to other waterproofing systems.
- Decreases concrete permeability - imparts protection to reinforcement steel in concrete against corrosive chemical attack.

USES

- Below grade structures, concrete foundations, basement / retaining walls and slabs on grade.
- Swimming Pools and water bodies.
- Tunnels, dams, canals and harbours.
- Parking decks and traffic bearing structures.
- Rooftop slab.
- Sewage and water treatment plants.
- Elevator pits, elevated slabs & ramps.
- Water towers and water reservoirs.
- Marine structures, bridge decks etc.
- Concrete walls, floors and pipes.

PROPERTIES

Colour	Grey
Appearance	Free flowing granular powder
Bulk Density	≈1800 Kg./m ³
Water Resistance	70 m of water head pressure

APPLICATION INSTRUCTION

TIKICRYST BC is a dry powder that is applied by broadcasting over the concrete surface just before finishing begins at a coverage rate of 1.6 Kg./ m².

Broadcast evenly first one-half of **TIKICRYST BC** dry-shake powder by hand or mechanical spreader. As soon as it absorbs moisture from the concrete surface, trowel /power float to finish the surface.

Over trowelling or power floating should be avoided, otherwise it may lead to blistering and /or de-lamination of the treatment.

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Immediately broadcast the remaining half of **TIKICRYST BC** dry-shake powder at right angles to the first application. Allow the second application to absorb moisture from concrete surface and trowel / power float to finish the surface

APPLICATION RATE

It is recommended to broadcast **TIKICRYST BC** dry-shake powder @ 1.6 Kg./m² in two applications.

LIMITATIONS

TIKICRYST BC is suitable for use in concrete structures designed to have crack width ≤ 0.5 mm. If the constant or repetitive movements are expected in the concrete structures than in such cases, **TIKICRYST BC** may not perform effectively.

TIKICRYST BC should not be used on concrete surfaces having cement content less than 250 Kg./m³. Also, it should not be used when w/c ratio of concrete mix is > 0.50 .

When high performance concrete is used or when concrete has very low w/c ratio or high air entrainment, it is recommended to test the product for evaluating the finish.

CURING

Curing should commence as soon as final set has occurred but before the treated surface begins to dry and should continue for at least 48 hours.

Wet curing of applied system as per basic curing procedure would be beneficial.

Rapid drying of applied system should be prevented by sprinkling / spraying water and covering it with polyethylene sheet for at least 7 days.

Storage bodies should be filled with water minimum 24 hours after the final coat is applied.

CLEANING

Immediately after application, use water for cleaning application tools.

SUPPLY

TIKICRYST BC is supplied in 25 Kg. pack size.

STORAGE

TIKICRYST BC must be stored above 5°C. Store under the shed & protect from extremes of temperature, heat, direct sunlight. The shelf life is 6 months in sealed unopened packing.

SAFETY PRECAUTIONS

As with all chemical products, care should be taken during use and storage. Avoid contact with skin, eyes, mouth and food. For further detail, refer to Material Safety Data Sheet.

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