

# TIKI AQUASEAL CWP PLUS



## High Performance Crystalline Waterproofing Coating

### DESCRIPTION

**TIKI AQUASEAL CWP PLUS** is new generation advanced high performance waterproofing coating based on crystallization principle. It offers permanent solution to stop water ingress in to the concrete structure through pores and capillaries.

When applied on to the cementitious surface, it penetrates into the concrete and seals the capillaries and shrinkage cracks effectively. It is ideal for waterproofing both from positive and negative side of the concrete structure.

It can be applied on fresh or existing concrete to provide a permanent in-depth water proofing solution.

The state-of-heart crystalline technology works within the concrete matrix by chemical reaction of different components present in the waterproofing coating in presence of moisture and free lime forming insoluble crystallization products in the capillaries and shrinkage cracks, thereby blocking the passage of water.

The ability of **TIKI AQUASEAL CWP PLUS** to permanently generate crystallization reaction in concrete matrix makes it ideal choice for construction projects. Should water or moisture become present at a future date, the process of re-activation of crystallization reaction initiates and stops further water ingress in to the structure.

The unique technology of **TIKI AQUASEAL CWP PLUS** allows the transmission of water vapour, maintaining the natural breathability of concrete thereby eliminating the water pressure build-up.

Treatment with **TIKI AQUASEAL CWP PLUS** improves waterproofing properties of concrete considerably.

### ADVANTAGES

- Effective against high hydrostatic pressure.
- Reliably self-seals hairline cracks up to 0.4mm.
- Suitable for application from the positive or negative side of the water pressure.
- Becomes monolithic and integral to the concrete - cannot be damaged or deteriorate.
- Permanent waterproofing, reactivates in presence of moisture.
- Protects against chlorides and corrosion of reinforcing steel, increasing life of concrete.
- Can be applied to concrete during early stages of strength development (green concrete).
- Easy to apply – cost effective installation.
- Increases durability of the concrete.
- It does not require special protection during backfilling, placement of reinforcement or other procedures necessary to protect surface type waterproofing systems.

### USES

- Concrete basements, walls, slabs and footings.
- Marine structures.
- Elevator pits and equipment pits.
- Parking structures.
- Swimming pools and water features.
- Water towers, reservoirs and storage tanks.
- Tunnels, concrete pipes and underground vaults.
- Bridge decks, elevated slabs and ramps.
- rooftops and roof deck.
- Sewage and water treatment plants.

### PROPERTIES

PROPERTIES	VALUE
Colour & Appearance	Grey Powder
Bulk Density	≈ 1150 Kg./m <sup>3</sup>
Water / Powder Ratio	0.40
Water Pressure Resistance	70 m of water head pressure (when used in 2 coats)

## APPLICATION INSTRUCTIONS

### SURFACE PREPARATION

The surface should be structurally sound and free from dirt, soil, oil release agent, laitance and any other foreign materials, which may impair the bond, penetration and/ or overall performance of **TIKI AQUASEAL CWP PLUS**.

### PRIOR TO APPLICATION

- 1) Extremely smooth concrete surface must be water blasted, sand blasted or acid etched to make sure the concrete surface has open capillary system. The surface to be treated should never have shiny appearance and should have open pores to enable the penetration of active chemicals in to the concrete.
- 2) Visible static cracks exceeding 0.25mm in size should be opened out to a depth of 20 mm to 25 mm in 'V' shape and repaired with repair mortar **TIKI CRM**.
- 3) All honeycombed pocket, bug holes, construction joints should be opened out to sound concrete and repaired with repair mortar **TIKI CRM**.
- 4) Dry surfaces should be made damp by sprinkling water prior to application of **TIKI AQUASEAL CWP PLUS** system. Moisture must be present in the concrete strata to ensure maximum chemical penetration. Surfaces should be damp when coating is applied.
- 5) If running water is present, then use instant setting plugging mortar or hydrophobic PU foam injection grout **DANOINJECT PUF**.

## APPLICATION

### MIX RATIO

For Brush Application: Maintain water/powder ratio of 0.40. Hence, for 25 Kg. Bags:10 litres of water is required.

For Spray Application: Maintain water/powder ratio of 0.60. Hence, for 25 Kg. Bags:15 litres of water is required.

### MIX PREPARATION

Add gradually **TIKI AQUASEAL CWP PLUS** powder in water until a homogeneous lump free mix is obtained.

Prepare only as much as that can be applied within a 1/2 hour period.

The prepared mix is applied to damp concrete surfaces using soft bristle brush or masonry type brush with artificial fibres.

Stir the prepared mix frequently during application.

Apply **TIKI AQUASEAL CWP PLUS** in minimum two coats. Apply each coat @ 0.80 Kg./m<sup>2</sup>. Care has to be taken during application to ensure that thickness of coating in single application does not exceed 1mm. The second coat should be applied when first coat is dry to the touch.

Light spray of water may be required between coats in hot / dry climates.

When, **TIKI AQUASEAL CWP PLUS** is applied by spray, than immediately spray application should be followed by brushing to ensure that the product penetrates effectively in to the concrete pores and capillaries.

### COVERAGE

The coverage of **TIKI AQUASEAL CWP PLUS** varies with the surface porosity and environmental condition. Normally it is applied @0.80 Kg./m<sup>2</sup> in each coat, giving total consumption of 1.6 Kg./m<sup>2</sup> in two coats.

## CURING

Except for extremely hot weather and very low humidity, generally curing of **TIKI AQUASEAL CWP PLUS** system is not required. In the extreme conditions curing must begin as soon as the applied coating has hardened sufficiently so as not to be damaged by a light water spraying which may be required more frequently and for around 7 days.

## CLEANING

Immediately after application, use water for cleaning application tools.

## SUPPLY

**TIKI AQUASEAL CWP PLUS** is supplied in 25 Kg. pack.

## STORAGE

**TIKI AQUASEAL CWP PLUS** must be stored above 5°C. Store under the shed & protect from extremes of temperature, heat, direct sunlight. The shelf life is 12 months in sealed unopened container.

## 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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