

# INDOSIT™ TTCIA (P) 2010

(Corrosion Inhibiting Powder)

INDOSIT™ TTCIA (P) 2010 powder-based corrosion inhibitor powder admixture that, that protects steel reinforcing, carbon steel, galvanized steel and other metals embedded in concrete from corrosion induced by carbonation, chloride attack. It is compatible with all types of cement and cementitious binder and does not negatively affect the essential properties of the concrete mix. When incorporated into the concrete mix, it forms a corrosion inhibiting protective layer on Steel.

## Conforms:

·IS: 9103-2007, ASTM C-494-2010(Type-D), JIS-Z-1535, ASTM G1

## Applications:

INDOSIT™ TTCIA (P) 2010 is recommended for:

- All reinforced, precast, prestressed, post tensioned or marine concrete structures
- Steel-reinforced concrete bridges, highways and streets exposed to corrosive environments (carbonation and atmospheric attack).
- Infrastructure projects, Refineries, Metro and Transportation, Precast elements, Railway sleepers
- Restoration and repair of all reinforced concrete commercial and civil engineered structures.
- Chemical plants, Sewage plants, Chlorinating plants, Swimming pools, Pulp & Paper industry.
- Parking decks, ramps and garages.
- All reinforced marine concrete structures.
- Concrete piers, piles, pillars, pipe and utility poles.
- Bridges, Flyovers, Docks and Structures exposed to saline atmosphere

## Advantages:

- Creates monomolecular inhibiting layer
- Ensures uniform corrosion protection throughout the concrete matrix.
- Protects both anodic and cathodic areas of reinforcing steel (or metal)
- Penetrates towards rebar over a prolonged period and arrests corrosion of rusting steel.
- Does not contain phosphates, nitrites, chromates, or heavy metals
- Non-toxic, environmentally friendly
- Effective even in the presence of high number of chlorides.
- Does not affect bond strength of new concrete to reinforcement bars.
- Does not affect mechanical strength characteristics of concrete/mortar.

## Pack Size:

Available in 20 kg or as per site requirement in bulk quantity.

**Technical Properties:**

Property	Observations
Appearance	White to Off White powder
Skin Irritation	No Skin Irritation
pH (1% aqueous )	6.0 to 7.0
Modified accelerated corrosion test based on Japanese Ind. standard JIS Z 1535 (Refer Appendix -I) Accelerated Corrosion Test 1. Raw water without INDOSIT BCI 2015 2. Raw water with INDOSIT BCI 2015	1. Excessive Corrosion spots observed. 2. No Corrosion Spot observed
Storage/Shelf Life	24 months in sealed drum /bag

**Dosage:**

Added to the concrete mix at the rate of 1 pound per cubic yard (0.6 to 1 kg/cubic meter).

**INSTRUCTIONS FOR USE****Method of Application**

INDOSIT™ TTCIA (P) 2010 can be added to concrete at the ready-mix plant, directly to the ready-mix truck drum or to portable mixers. Concrete should be mixed thoroughly.

**PRECAUTION**

- Do not leave in unsealed pack.
- Use immediately after opening the pack.

**HEALTH & SAFETY**

- If contact with the skin occurs, wash with soap and plenty of water.
- Direct contact with eyes will cause irritation and may cause serious damage if left untreated. Wash any eye contamination thoroughly with plenty of water. Immediately seek medical treatment.

**Manufacturer**

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