

INDOSIT™ BCI 2015

(Liquid Bipolar Corrosion Inhibiting Admixture)

INDOSIT BCI 2015 is specially formulated liquid based bipolar penetrating corrosion inhibiting admixture for reinforced concrete and mortars. It forms a monomolecular layer on reinforcing steel surface to prevent moisture, oxygen, and chloride from reaching it. It does not have any negative influences on the properties of fresh and hardened concrete. INDOSIT BCI 2015 protects concrete from the destructive influences of reinforcement corrosion.

Advantages/Benefits:

- Protection from the destructive influences of reinforcement corrosion
- As corrosion protection for embedded reinforcing steel especially from the influences of chloride effects
- Does not contain silicates, phosphates, nitrites, or heavy metals
- No adverse effect on slump retention and compressive strength

Compatibility

- Any type of cement or cementitious material

Dosage

- 0.8 to 3kg by wt of Cement or cementitious binder.

Uses

- Can be used in reinforced concrete subjected to aggressive corrosive environment specifically in Chloride induced corrosion.
- It is very suitable for concrete in concrete road, foundation, Retaining Walls, Bridges, Tunnels, Industrial Plants, High rise buildings, Structures in sea water,Pre-cast

Conforms

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

Instruction for Use

- It can be mixed with the gauging water or added directly in the concrete mixer with other admixtures. It is compatible with plasticizers and super plasticizers. It may also be added to the concrete in the transit mixer at the point of discharge. In this case, an additional mixing time of at least 1 to 2 minutes per m³ concrete must be observed. Before discharging it, check the concrete visually for uniform consistency. The quantity of INDOSIT BCI 2015 in the mix design should be taken into consideration when adding the quantity of water for a specific W/C ratio.

Technical Properties

Property	Observations
Appearance	Clear to slightly cloudy liquid
Odour	Mild Ammoniacal odour
Skin Irritation	No Skin Irritation
pH	Minimum 9.5
Specific Gravity at 27 ± 2°C	1.04 ± 0.2
Viscosity (Ford Cup No. B-4 at 27 ± 2°C)	10 -15 Sec
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 and Shelf Life	12 months in tightly sealed container at 25°C stored away from direct sunlight
Packing	225 kg in HDPE Drum

Precaution

- Do not leave in unsealed pack. Shake well before use.
- It should not to be stored at high temperatures for long periods.
- It should be protected from frost.

Health and 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

Velosit India Pvt Ltd
209 Exim Link
Mulund Goregoan Link Road
Nahur West
Mumbai 400078

