

## CORRO GUARD -B

### (For highly corrosive industrial application)

#### DESCRIPTION:

Corro Guard -B are the Galvanic / Sacrificial anodes used in concrete to prevent further corrosion.

Anodes are surrounded by Alkali activated mortars once installed or fastened to the reinforcement steel zinc core corrodes & protects the reinforcement steel in highly corrosive environment.

#### AREAS OF APPLICATION:

- New and old Structures.
- It can be used in bridges, Jetties.
- Can be used in Residential buildings.
- Can be used in Chimneys & Cooling towers.
- In all types of Industries.
- Can be used in water retaining structure.

#### ADVANTAGES:

- Provides corrosion protection.
- Easy to install, anode can be easily fastened to the reinforcement steel.
- It doesn't require external power source.
- Performance can be easily monitored.
- It is long lasting for 10-20 years & reduces the future repairs.

#### TECHNICAL SPECIFICATIONS:

Sr. No	Specifications	Technical Details
1	Working Principle	Galvanic Series
2	Anode (Zn-alloy) Material Compliance with	As per ASTM B418 Type II
3	PH	14
4	Size of finished goods	80mm x 40mm x 35mm
5	Total mass of Zinc	60 gm
6	Wire & specifications	Non- corrosive tie wire

#### KEY FEATURE:

**CORRO GUARD- B tested from CSIR (Central Electrochemical Research Institute) Karaikudi**



## INSTALLATION METHOD:

- Break concrete from around & behind the reinforcement.
- Remove all scales, rust, loose mortars from the reinforcement & around the reinforcement.
- For repairs remove all de bonded concrete which induces chloride penetration & further corrosion.
- Anodes are typically tied to the exposed reinforcement close to the concrete.
- Proper cleaning of reinforcement steel is needed where anode tie wires are going to be connected. It provides good electrical conductivity.
- Soaking of anodes for 15 -20 Minutes before application are recommended.
- Fasten the tie rods to the reinforcement steel.
- Electrical connection between anodes tie wires & the clean the reinforcement steel should be between 0-1.0  $\Omega$ .
- Minimum cover on the anodes must be 20 mm.
- Spacing between the anode
- 1. In repairing of structure.
  - If corrosion is low, spacing of anodes are 1.5 sqm.
  - If corrosion is medium, spacing of anodes are 1 sqm.
  - If corrosion is High, spacing of anodes are 0.75 sqm.
- 2. In new construction
  - Fasten the tie rods to the reinforcement & maintain the space of 2 sqm.

## STORAGE:

- Anode should be placed in dry atmosphere.
- It should be used within 12 months

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