



CORRO GUARD – B (For highly corrosive industrial application)

DESCRIPTION:

Corro Guard -B are the 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.

TYPICAL APPLICATION:

- New and old Structures.
- 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 SPECIFICATION:

Sr. No	Specifications	Technical Details
1	Product name	Corro Guard -B
2	Anode class	Alkali activated (Mortar PH – 14 and greater)
3	Working principle	Galvanic series
4	Anode (Zn-alloy) material compliance with	As per ASTM B-418–95a
5	Surface area of anode	0.32 cm ²
6	Size of finished goods	80mm x 40mm x 35mm
7	Outer shell material	Ion conductive galvanic matrix
8	Total mass of zinc	57 gms
9	Wire & specifications	Galvanized iron wire

Constro Chem India Pvt. Ltd.

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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 Ω
- 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 2 sqm
 - If corrosion is medium, spacing of anodes are 1.5 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

SAFETY:

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

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