

CORRO GUARD-B

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.

USES:-

- New and old Structures.
- Can be used in bridges, Jetties.
- Can be used in Residential buildings.
- Can be used in Chimneys.
- In all types of Industries.

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 INFORMATION:-

Sr. No	Specification	Technical details
1	Product name	Corro guard -B
2	Anode class	Alkali activated
3	Working principle	Galvanic series
4	Anode(zn-alloy) material compliance with	As per ASTM b-418
5	Surface area of anode	3.15 cm ²
6	Size of finished goods	Dia-35 mm ²
7	Outer shell material	Ion conductive galvanic matrix
8	Total mass of zinc	60 gms
9	Wire & specifications	Galvanized iron wire

Constro Chem India Pvt Ltd

201, Shrusthi tower Near Parsik Janta bank, Kalwa Naka Thane (West), Maharashtra -400 605.

Mobile: +91-9323244244

Email: sales@constrochemindia.com

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 debonded concrete which induces chloride penetration & further corrosion
- The reinforcement should properly be cleaned by wire brush, abrasive paper ,scriding or Scrapping
- Proper cleaning of reinforcement steel is needed where anode tie wires are going to be connected. It provides good electrical conductivity.
 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 rodes to the reinforcement & maintain the space of 2 sqm

APPLICATION METHODS:-

- The spacing of anodes are as above mentioned
- Anodes are typically tied to the exposed reinforced close to the concrete
- Minimum cover on the anodes must be 20 mm
- Soaking of anodes for 15 -20 Minutes are recommended
- Fasten the tie rods to the reinforcement steel
- Electrical connection between anodes tie wires & the clean the reinforcement steel should be between 0.1-1.0 Ω

SAFETY:-

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

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