

## CORRO GUARD –S

### (Alkali activated galvanic strip anode)

#### DESCRIPTION:

CORRO GUARD –S are the strip 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 & it is used for cathodic protection are cast from high purity zinc (99.9 %).

#### AREAS OF APPLICATION:

- Bridges, jetties, columns & pillars.
- Service life extension of bridges.
- In new constructions of concrete structures.
- Galvanic jacketing in concrete pillars & columns.
- Can be used in chimneys. → Best application to be used in cooling towers.

#### ADVANTAGES:

- 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 20-30 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 95A
3	Outer shell material	Ion Conductive Galvanic Matrix
4	Size of finished goods	100cm x 27mm x 5mm
5	Total mass of Zinc	890 gm
6	Wire & specifications	Galvanized iron wire
7	Zinc Purity	99.99%



### 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.
- 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  $\Omega$ .
- spacing of anode will be vary from 150 mm to 750 mm.

### STORAGE:

- Anode should be placed in dry atmosphere.

### PACKAGING:

4 Pieces per box

### SAFETY PRECAUTIONS:

Contact with moisture can release alkalis which may be harmful to exposed skin. Anode components should be handled with suitable gloves. Care should be taken to avoid contact with eyes, skin, and mouth and food stuff. Any splashes on the human body must be washed with plenty of water.

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