

ZINC ROLL ANODE

DATASHEET
6.14

ZRA ANODE



Galvanic anodes for the protection of steel in concrete. The RollAnode anodes are composed of a multi-layer zinc core with ion-conductive gel. They are made by wrapping the zinc sheet with the ion-conducting electrolyte up to reach a diameter of about 25mm with variable length according to request (from 10 cm at 1m). Anodes are used in structures where corrosion exists or can easily develop. They prevent the formation of new corrosion and stop the corrosion activity in progress on the reinforcement.

Some application examples:

Stacks and abutments of bridges or viaducts

- Insoles
- Joints between new and old reinforced concrete
- Front panels, supports for balconies and building facades
- Concrete floors



Rollanode is applied by drilling holes in the concrete with a diameter of at least 30mm and a depth of approximately 4-5 cm greater than the length of the anode itself.

To make the application of RollAnode simple and efficient, a special electrolytic paste has been formulated (supplied in 600 ml containers). The electrolytic paste commercially known as ZAP (Zinc Activator Paste) is used to fill the holes where the anode is positioned to ensure contact between the anode and the concrete thus allowing the passage of ionic current. It can be applied with a common manual or electric sealant gun. The special formulation allows the anode to function in all circumstances, even when the concrete is very dry, and also allows easy replacement of the anode at the end of its useful life.

The service life of the anodes refers directly to the following variables:

Total zinc weight per unit area, surface area (density) of steel, presence and availability of oxidizing agents (O₂, H₂O) to maintain cathodic reactions on the steel structure, and the capacity of the anode. Even elements such as the strength of the concrete and its temperature must be taken into consideration. Once installed, thanks to the potential difference of the two metals, the zinc contained will be consumed, keeping the reinforcements protected over time. Once the anode has been installed and the paste has been applied, the hole can be sealed with a mortar to avoid the possibility of water or humidity entering. In case there is a need or intention to regularly monitor the operation of the anodes, plastic plugs can be used to seal the holes.



BAC[®]
CORROSION CONTROL

BAC Corrosion Control Ltd
Stafford Park 11 • Telford • TF3 3AY
United Kingdom

T: +44 (0) 1952 290 321
E: sales@bacgroup.com
W: www.bacgroup.com