

## Technical Data Sheet

### Zinc Discrete Anode (ZDA) ML10

Zinc sacrificial anodes for corrosion control of steel in concrete

#### Description

ZDA ML10 anodes are sacrificial zinc anodes imbedded in an ion-conductive auto moistening paste, for cathodic protection of reinforced concrete structures which are newly build or need to be repaired.

#### Several typical examples of applications:

- In combination with concrete patch repair
- Bridge deck or beam supports and columns
- Balcony facings and concrete facades
- Floorings
- All type of prefab concrete constructions
- Zones of newly casted concrete adhered onto an existing structure

The ZDA ML10 anodes are based upon a composed of a multi-layered zinc core coated with a patented ion-conductive self-moistening overlay paste keeping the anodes active during their entire service-life. These anodes are utilized in those areas where high expectancy of corrosion is ascertained. They guarantee a strong reduction of corrosion and preventing new locations with initiation of corrosion.

The service life of the anodes is directly related to the following variables : total zinc weight per unity surface area, steel surface area (steel density), presence and availability of oxidizing agents (O<sub>2</sub>, H<sub>2</sub>O) to maintain the cathodic reactions on the steel structure, and the anode's capacity.

Thanks to the ease and quickness of the installation application costs can be reduced to a minimum.

The eventual driving force between those anodes and the steel reinforcement guarantees a long and corrosion-inhibited service life of the structure.



#### Typical Features

Typical corrosion defined as galvanic corrosion occurs when two different types of metal are in contact with each other and surrounded totally or partially by an electrolyte.

The metal with the most negative electrode potential will corrode or sacrifice itself to protect the other metal with a more positive electrode potential. In a similar way the **ZDA ML10** anodes will corrode and sacrificing themselves protecting the steel or reinforcing structure being hooked up onto it. Each anode will create an extended electric field around itself within the electrolyte which is called "throwing power" which is the protecting zone of the anode.

Long term experiments showed that these Zinc sacrificial anodes comply with the criteria mentioned in the international ISO 12696 standard.



Dimension	100 x 50 mm
Thickness	20mm
Zinc weight	175 gr
Gross weight	280 gr
Stock conditions	< 30°C < 50% RH
Maximum storage time	12months (original packing)
Tariff nr.	7905 00 00

#### WARNINGS

The instructions described above corresponds to our best knowledge and experience but are approximate indications. However due to variations of the environmental conditions instructions should always be checked by specialists to minimize performance failures.

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**Approved**  
R. Giorgini

All technical data stated in this Technical Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control. The information, and, in particular, the recommendations relating to the application and end-use of CorrPRE's products, are given in good faith based on CorrPRE's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with CorrPRE's recommendations.