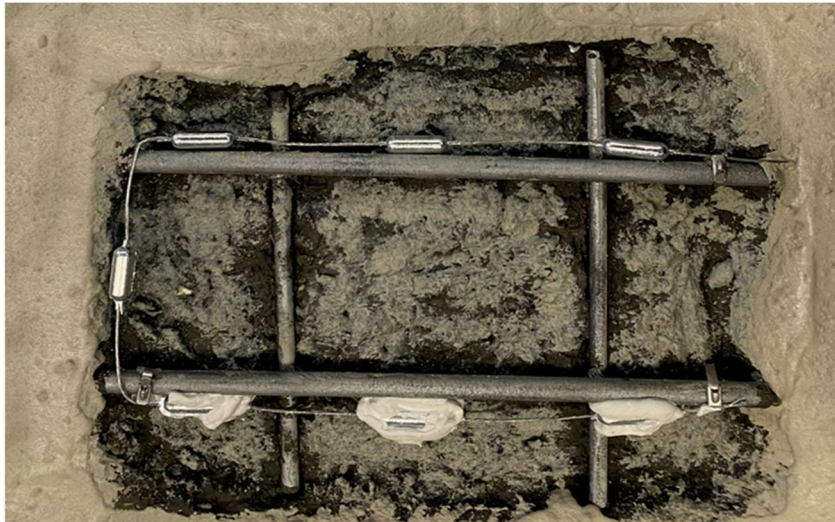




DRIZORO®

GALVAZINC ROLL

ROLL OF ZINC ANODES FOR GALVANIC CORROSION CONTROL IN REINFORCED CONCRETE



DESCRIPTION

DRIZORO® GALVAZINC ROLL is a flexible roll with sacrificial zinc anodes to be embedded in reinforced concrete for dual function galvanic protection:

- Corrosion control: significantly reduce the existing corrosion activity.
- Cathodic prevention: prevents the initiation of new corrosion in steel adjacent to repair areas (prevents "Incipient Anod" effect).

DRIZORO® GALVAZINC ROLL is especially indicated for the treatment of areas with a low concrete cover where the reinforcements to be protected can be easily accessed. When installed in contact with steel rebars, the zinc anode is activated embedded in a special cathodic repair mortar **MAXRITE® CATHODIC**, acting as a sacrificial anode which corrodes preferentially providing galvanic protection to the surrounding steel.

APPLICATION FIELDS

- Protection of concrete affected by corrosion of reinforcements in marine environment, bridges, harbours, dams, etc.

- Reinforced structures affected by carbonation process.
- Maintenance of industrial areas damaged by aggressive environment, acid rain, atmospheric pollution, etc.
- Repair and corrosion protection of structural concrete on vertical or overhead surfaces, without form works.

ADVANTAGES

- Immediate protection after installation, stopping reinforcement corrosion and concrete degradation.
- Quick and direct installation onto the steel surface. Drilling holes in concrete is not required.
- Suitable for chloride contaminated structures or carbonated concrete.
- Maintenance-free. Does not need electrical supply power.
- Allows monitoring to know its effectiveness.
- Long lasting solution: 10-20 years life expectancy without further repairs.

APPLICATION INSTRUCTIONS

Surface preparation

For the installation of the **DRIZORO® GALVAZINC ROLL**, follow the recommendations given in EN 12696 and CEN/TS 14038 standards.

Front of slabs, balconies and cornices:

Once the reinforcements have been located, make a 3 x 3 cm groove at least to expose them and allow the access.

Slabs, walls and other big area structures:

The 3 cm x 3 cm groove will be carried out with a zig-zag pattern and with a surface ratio not higher than 2 linear meters of roll per m² of area to be covered, and providing a spacing between the anodes not greater than 30-60 cm.

Installation

The roll will be tied along to the rebar every 10 lineal meters by a metal wire.

Each anode core of **DRIZORO® GALVAZINC ROLL** must be fully encapsulated by an electrolytic paste sealant **DRIZORO® GALVAZINC BOND**, applied by caulking gun, and ensuring there are no air bubbles entrapped. Then, one end of **DRIZORO® GALVAZINC ROLL** is connected to the rebars with a conductive cable. Finally, the groove is patched and level surface with the high-conductivity repair mortar **MAXRITE® CATHODIC**.



Application conditions

Avoid outdoor applications for both the electrolytic paste **DRIZORO® GALVAZINC BOND** and repair mortar **MAXRITE® CATHODIC**, if rain is expected, and/or contact with water, humidity, dew condensation, etc., within 24 hours of application. The optimum working temperature range is from 10°C to 30°C. Do not apply with substrate and/or ambient temperatures below 5°C or if lower temperatures are expected within 24 hours after application. Likewise, do not apply on frozen or flooded surfaces.

Applications at high temperatures, strong winds and/or low relative humidity, dampen the substrate with water. Avoid direct exposure to the sun with extreme heat.

Cleaning tools

Tools and equipment used will be cleaned with water immediately after use.

CONSUMPTION

Front of slabs, balconies and cornices:

1 lineal meter **DRIZORO® GALVAZINC ROLL**, per lineal meter of groove.

Slabs, walls and other big area structures:

2 lineal meters **DRIZORO® GALVAZINC ROLL** per each m² of surface area.

The estimated consumption for **DRIZORO® GALVAZINC BOND** is about 1 cartridge of 350 ml per 6 lineal meters of **DRIZORO® GALVAZINC ROLL**.

One metal wire per each 10 lineal meters of **DRIZORO® GALVAZINC ROLL**.

Consumption largely depends on the texture, porosity, and conditions of the substrate, as well as the application method. Perform an on-site test to determine your exact consumption.

IMPORTANT INDICATIONS

- The definitive pattern for the location of the anodes will be given by a specific design Software under the advice of the Technical Department, considering aspects such as the rebar density, the risk of corrosion depending on the environment, the presence of carbonation-type degradation processes, etc.
- For any application not specified on this Technical Bulletin or additional information, consult our Technical Department.

PACKAGING

DRIZORO® GALVAZINC ROLL is supplied in rolls of 150 meters. In addition to the flexible cord with zinc nodules, the system includes connectors, conductor cables and **DRIZORO® GALVAZINC BOND**.

DRIZORO® GALVAZINC BOND is supplied in 350 ml cartridges.

STORAGE

DRIZORO® GALVAZINC ROLL can be stored indefinitely with its original closed container in a dry, ventilated, and covered place.

DRIZORO® GALVAZINC BOND: Twelve months in its original closed and undamaged container. Likewise, protected from humidity and extreme temperatures, that is, temperatures above 5°C and below 40°C. Avoid direct exposure to light and heat sources.

SAFETY AND HEALTH

DRIZORO® GALVAZINC ROLL and **DRIZORO® GALVAZINC BOND** are not toxic product, but rubber gloves and safety goggles should be used during handling and application. In case of contact with eyes, rinse immediately with plenty of clean water and without rubbing. In case of skin contact, clean with warm soapy water. If ingested, seek immediate medical attention, do not induce vomiting.

Safety Data Sheet is available by request.

The disposal of the product and its packaging must be carried out in accordance with current legislation and is the responsibility of the final consumer of the product.



TECHNICAL DATA

Product characteristics	
Equivalent weight of Zn per meter (g)	140
Equivalent weight of Zn per anode, (g)	14
Number of anodes per meter	10
Diameter of anode, (mm)	12
Length of anode, (mm)	18
Protection effect zone, (cm)	10
Load capacity, (kC/m)	35
Application conditions for DRIZORO® GALVAZINC BOND	
Minimum application Temperature / Relative Humidity (°C/%)	>5 / <85
Consumption*	
DRIZORO® GALVAZINC ROLL	1 lineal meter per lineal meter of groove or 2 meters of roll per m2 surface area
DRIZORO® GALVAZINC BOND	1 cartridge 350 ml per each lineal meter

* Consumption may vary depending on the porosity and irregularities of the substrate, and the application method. Carry out an on-site test to determine the exact consumption

GUARANTEE

The information contained in this leaflet is based on our experience and technical knowledge, obtained through laboratory testing and from bibliographic material. **DRIZORO®, S.A.U.** reserves the right to introduce changes without prior notice. Any use of this data beyond the purposes expressly specified in the leaflet will not be the Company's responsibility unless authorised by us. We shall not accept responsibility exceeding the value of the purchased product. The data shown on consumptions, measurement and yields are for guidance only and based on our experience. These data are subject to variation due to the specific atmospheric and jobsite conditions so reasonable variations from the data may be experienced. In order to know the real data, a test on the jobsite must be done, and it will be carried out under the client responsibility. We shall not accept responsibility exceeding the value of the purchased product. For any other doubt, consult our Technical Department. This version of bulletin replaces the previous one.