



## ARTIDUR GALVANICO GRIS

12168

Anti-oxidant paint with cathodic, thixotropic and waterproofing action.

### MAIN USES

Especially designed for protecting metals exposed to rusting and corrosion.

Cold galvanizing. Boats, port facilities, shipyards, chemical industries, refineries, pharmaceutical, food and agricultural industries, fresh water, saline water and waste water pipelines, storage tanks of any kind, refrigeration, reactor and aeronautical chambers, cars, transport, abattoirs, tanneries, electroplating, waste containers, etc.

### PROPERTIES

Micronised metallic zinc powder, with our specially prepared binder, designed to give optimum waterproofing and adherence to metals. It can be left as a metallic finish.

### LIQUID PAINT TECHNICAL INFORMATION

Specific weight .....	3.2 g / cm <sup>3</sup>
Solids by volume .....	87 %
Viscosity at 20 °C .....	200 " Cup Ford n° 4 (20 °C)
Type of thinner .....	DISOLSINT

### DRY PAINT TECHNICAL INFORMATION

Colour .....	Grey
Physical properties:	
Adherence.....	100 %, ASTM grid method
Brushability .....	Good
Hardness .....	Zinc metal
Chemical properties:	
Water resistance .....	Over 1,000 hours, at 100 °C
Temperature resistance .....	250 °C
Resistances:	
Salt spray .....	Over 5,000 hours
Conductivity.....	2.5 ohms/s

### APPLICATION TECHNICAL INFORMATION

Performance .....	2 - 4 m <sup>2</sup> / kilo, approximately.
Instructions for use .....	

On previously deoxidised iron or steel, preferably with grade SA 2.5 sandblasting, hammered or brushed steel, apply a degreaser with suitable solvent. Subsequently, apply a layer of ARTIDUR GALVANICO GRIS with a brush in its supplied form, to which 2 to 3 % of DISOLSINT solvent has been added, ensuring the support is completely covered. In very corrosive surroundings, it is advisable to apply a second coating, which can be applied with an airless spray gun or by roller. It accepts all types of finish, allowing a suitable interval before repainting.



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Servicio de atención al cliente y asistencia técnica

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## DRYING TIMES

### Conditions:

Ambient temperature ..... 20 °C

Relative humidity ..... 70 %

Total drying ..... 2 hours - Re-painting 5 hours

Tools..... They should be cleaned periodically for every two hours of continuous work. Depending on the temperature and humidity of the environment, they should be cleaned more frequently.

## CORROSION MECHANISM

Corrosion is an electrochemical process which begins with the combined aggression from water and atmospheric oxygen, forming a layer of oxide with a lower density than that of iron and releasing free electrons, which begin the formation of a galvanic cell.

This cell consists of a cathode on the iron surface, at the point where the free electrons and the anode are, and it is the point where the rust forms.

This process is accelerated when the water contains a solution of sodium chloride Cl (-) Na (+), which acts as a galvanic bath, facilitating the transport of electrons.

## PROTECTION MECHANISM

**ARTIDUR GALVANICO GRIS** acts in several ways through the following actions:

- 1 Translation of free electrons (negative charges) to the paint surface, with the consequent passivation of the iron. This phenomenon is the result of the high conductivity presented by the formed film.
- 2 Elimination of the water and humidity absorbed in the rust and on the iron surface, thanks to the drying function of **ARTIDUR GALVANICO GRIS** which binds with the humidity to produce the film, combining it chemically and disappearing completely as an ionizing agent.
- 3 Insulation of the iron, protected from humidity and atmospheric air, owing to the effective waterproofing of **ARTIDUR GALVANICO GRIS**.
- 4 Perfect adherence to all kinds of metals, guaranteeing perfect protection and total coverage.
- 5 Magnificent mechanical properties, which ensure and enable the manipulation of the protected pieces. They can be subjected to any force without **ARTIDUR GALVANICO GRIS** losing its effect, given its elasticity, hardness, adherence and resistance to abrasion. It also allows for easy soldering of the protected pieces.
- 6 Exceptional resistance to chemical attack from all types of saline and alkaline waters, such as ultraviolet degradation and weathering, which guarantees a lasting and effective protection.

## STORAGE AND PACKAGING

Supply format ..... In silk-screened metal cans containing 1 and 8 kilos.

Storage ..... In closed original packaging at temperatures of +5°C to +40 °C.

Avoid extreme temperatures and direct sunlight.

Expiry ..... 6 months from the shipping date.

Once the can is opened, the product should be used within 20 hours.

## SAFETY AND THE ENVIRONMENT

Read the packaging label and the Safety Sheet.



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