

iBiotec®

**MANUFACTURER OF TECHNICAL AEROSOLS AND PRODUCTS FOR INDUSTRY
PROCESSES - MRO - MAINTENANCE
ALTERNATIVE SOLVENTS 100% SAFE**

Datasheet - Last update: 2025-02-10

iBiotec® GALVA ZN+ ULTRA GLOSSY

**COLD GALVANISING AEROSOL
METALLISATION RETOUCHING FINISH**

AREA COVERED PER AEROSOL : 10 m²

USABLE FROM -50°C TO +550°C. WELDABLE - PAINTABLE

**TEST RESULTS – SALINE FOG – RI 5 more than 2,800 h
MINUTES OF ANALYSIS BY INTERTEK LABORATORIES (with COFRAC and ISO 17.025
certification)**

N°PVA-CHL-R14-0135D-A01 dated 28.07.2014

This expertise report can be sent to you upon simple request, using the contact card

DRYING TIME

Dust dry at 25°C : **4 minutes 30**

Drying time at 25°C before handling : **7 minutes**

Total curing time at 25°C : **24 heures**

DESCRIPTION

Cold galvanising aerosol with high zinc content, recommended for long-term protection of all metallic parts (iron or alloy types).

Ensures galvanising coatings which have a consistent thickness, with a homogenous and ultra-shiny appearance.

Film which is distinguished by the high quality of its appearance.

Cold galvanising aerosol Zn+ iBiotec, resistant at temperatures up to 550 °C without deteriorating. This characteristic allows the user to do any job with it, on bodies which are subjected to very high temperatures. In addition, the coating produced is solderable (except with argon).

This cold galvanisation aerosol offers several benefits:

- Galvanic protection (with oxidation reduction principle), obtained at 100 %.
- Protection against thermal corrosion, but also chemical corrosion.
- Film left (with no drips and no excess thickness; and it does not deteriorate during applications) on screwed joints.
- Very high hedging power, can be dusted away quickly, allowing for application on all types of sites.
- Perfect finish with ultra-shiny appearance.

- Paintable after total polymerisation (24 hours at 25 °C), with all types of paint.
- No need to purge the aerosol after the application.

This galvanisant allows for versatile action: for the protection of all galvanised metals; after mechanical recovery or welding; as well as for prevention of corrosion and oxidisation.

USAGE DOMAINS

Galvanic protection.
 Protection of all uncoated metallic parts.
 Recovery of hot-dip galvanised parts.
 Appearance treatment.
 Recovery after machining or welding.
 Preparation of surfaces.
 EDF poles, guardrails, sign boards.
 Industrial chimneys, flanges, pipes, fittings.
 Racks of machines, housings, bodies, architectural elements.
 Rivet heads, fasteners, roof pins, screw connections.
 Electric motor bodies, pump bodies, water meters.
 Hinges, metal doors, metal frames.
 Fences, enclosures, openings.
 Sanitary installations, heat pumps, air conditioning units.
 Heating installations, regresses with sealing tanks.
 Electrical equipment, rolling stock, sanitary installations.
 Protection of nails or screws before plaster coating.
 Carpentry, metalwork.
 Water purification and treatment facilities.
 Livestock building.
 Urban furniture.

MORE HOMOGENOUS

The galvanisant GALVA ZN+ULTRA SHINY, when applied (not to excess) on all parts which are to be protected from corrosion, allows for the realisation of homogenous film, with no drips or orange peel.

MORE PROTECTIVE

The norm NF ISO 9227 defines the test conditions for the salt spray test and enables the protection of a surface with a coating which protects it against physical, chemical and biological agents.
 The norm ISO 4628/3 allows for evaluation of the degree of rusting at the end of the test.

MORE RESISTANT

After polymerisation, coatings are particularly adherent to surfaces, they have excellent scratch resistance and they do not transfer when they are being manipulated.
 This adhesion is acknowledged during slow stamping tests as per the norm NF EN ISO 1520, after which appearance changes, cracks and peelings off are observed.

TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

CHARACTERISTIC	STANDARD or METHOD	VALUE	UNITS
Finish	-	paint	-
Colour	-	high gloss	-
Gloss	Specular reflection Reference 1.567 value 20°/20°	>90	µb
Density	NF EN ISO 2811.1	1.105	g/ml
Wet film thickness	Depth gauge	10	µm
Dry film thickness	magnetic induction	6	µm
Dust-dry time	ASTM D 5895	4,30	min
Time before handling	ASTM D 5895	7	min
Fully cured time	ASTM D 5895	24	hr
Cross-hatch test	ISO 2409	no deterioration	-
Stamping test	ERICHSEN	film not damaged	-
Wet abrasion resistance 28 days, 23°C, 50% relative humidity	ISO 11.998	class 1	value
Shear strength Tightening torque 80N/m	MIL A 907 ED	100	%
Temperature resistance	as per MIL A 907 ED	-50 +550	°C

Specific coverage RSc m ² /g per aerosol	NFT 30.001	10,1	m ²
Salt spray test	ISO 9227 ISO 4623-3	2808 RI 5	hr -

DIRECTIONS FOR USE

Shake the aerosol thoroughly, in an up-and-down movement, after releasing the ball in the can. Spray from a distance of 15 to 20 cm from the surfaces to be treated, avoiding excess thickness and using criss-crossing strokes as necessary. To avoid adhesion problems, do not spray from a greater distance. The principle of galvanisation is that the zinc particles must bind chemically to the iron atoms in order to achieve extremely low oxidation. Surfaces to be treated must be prepared with care to ensure long-lasting protection. It is therefore essential that surfaces are degreased, clean and dry, and are free of grease and traces of rust or scale. Clean with a metal brush or sand the surface if necessary. Aerosol may be used in any position. Do not purge the aerosol after use.

Tip : store the aerosols lying flat to reduce the shaking time needed.

PRESENTATION



iBiotec® Tec Industries®Service
 Z.I La Massane - 13210 Saint-Rémy de Provence – France
 Tél. +33(0)4 90 92 74 70 – Fax. +33 (0)4 90 92 32 32
www.ibiotec.fr

USAGE RESERVE AUX UTILISATEURS PROFESSIONNELS

Consulter la fiche de données de sécurité.

Les renseignements figurant sur ce document sont basés sur l'état actuel de nos connaissances relatives au produit concerné. Ils sont donnés de bonne foi. Les caractéristiques y figurant ne peuvent être en aucun cas considérées comme spécifications de vente. L'attention des utilisateurs est en outre attirée sur les risques éventuellement encourus lorsqu'un produit est utilisé à d'autres usages que ceux pour lesquels il est conçu. Parallèlement, le client s'engage à accepter nos conditions générales de marché de fournitures dans leur totalité, et plus particulièrement la garantie et clause limitative et exonératoire de responsabilité. Ce document correspond à des secrets commerciaux et industriels qui sont la propriété de Tec Industries Service et, constituant un élément valorisé de son actif, ne saurait être communiqué à des tiers en vertu de la loi du 11 juillet 1979.