



Spécialiste en Galvanisation / Galvanizing Specialist

*Distributeur exclusif en Amérique du Nord, au Mexique, en Nouvelle-Zélande et en Australie
Canadian exclusive master distributor for North America, Mexico, New Zealand and Australia*

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GALVATECH 2000'S HISTORY AND EXPERTISE WITH THE RUST-ANODE PRIMER® TECHNOLOGY

NEW AND/OR EXISTING STRUCTURES

FOR FUTURE PROJECTS THINK DIFFERENTLY

- **UNIQUE HIGH-PERFORMANCE TECHNOLOGY**
- **NOT COMPARABLE TO STANDARD COATINGS**
- **MINIMUM SURFACE PREPARATION**
- **SINGLE COAT APPLICATION**
- **GALVANIZING COMPOUND**
- **PERFORMS OVER RUST**
- **PERFORMS IN SALTED AND UNSALTED ENVIRONMENTS**
- **MARINE INDUSTRIAL GALVANIZING COMPOUND
APPLICABLE OVER ALL TYPES OF METAL SUBSTRATES
INCLUDING ALUMINUM AND STAINLESS STEEL**

**GALVATECH 2000 IS THE EXCLUSIVE MASTER DISTRIBUTOR OF THE
RUST-ANODE TECHNOLOGY IN NORTH AMERICA**

TECHNICAL SUPPORT WITH QUALIFIED NACE QUALIFIED TECHNICIANS

COLLABORATION WITH PROJECT MANAGERS FOR THE PREPARATION OF TECHNICAL DOCUMENTS

TRAINING FOR THE UNDERSTANDING OF THE CORROSION CONTROL MECHANISMS

SUPPORT FOR THE APPLICATION OF THE RUST-ANODE PRIMER® TECHNOLOGY

CHAIN OF SUB-DISTRIBUTORS

RUST-ANODE PRIMER

TESTED BY INDEPENDENT LABS

<u>Tests</u>	<u>Standards</u>	<u>Rust-Anode Primer</u>
Organic Zinc Rich	ONGC -1,181/CAN/ CGSB-1.181-92 SSPC PAINT 20 SSPC PAINT 29 TYPE IIB SSPC PAINT 40 SSPC PAINT 41	Conform
Abrasion	ASTM D4060-14 1000 cycles CS10, load 1000g	116 mg
Pull-Off strenght	ASTM D4541	1775 Psi 12.24 MPa
Adhesion	ASTM D3359	5B Excellent
Hardness	ASTM D3363	5H Excellent
Impact	ASTM D2794, 100 lbs, impactor 0,625"	No cracks
Flexibility - Folding - Plasticity	ASTM D522, Tapered mandrel 1/4, 180°	Bend resistance: ¼" Elongation: 15%

<u>Tests</u>	<u>Standards</u>	<u>Rust-Anode Primer</u>	<u>Hot-Dip Galvanized</u>
Corrosion by immersion	ASTM G44-99 (2013), 3,5% Sodium Chloride, 90 days	Blister: None Corrosion: < 0.03%	Blister: None Corrosion: 33%
Cyclic Corrosion test	ASTM D5894-10 with cold cycles, 10,000 hours	Blister: None Corrosion: < 0.01%	Blister: None Corrosion: < 0.01%

Tests available upon request

Atmospheric Corrosion Rates

The Rust-Anode Primer is designed for corrosive environments in the C5 category

Corrosion catégories	Examples of typical corrosion environments
C1 Very Low	<ul style="list-style-type: none"> ➤ Heated buildings with clean atmospheres, e.g. office, shops, schools.
C2 Low	<ul style="list-style-type: none"> ➤ Unheated buildings where condensation may occur, e.g. depots, sports halls. ➤ Atmospheres with a low level of pollution. Mostly rural areas.
C3 Middle	<ul style="list-style-type: none"> ➤ Production rooms with high humidity and some air pollution, e.g. food-processing plants, laundries, breweries and dairies. ➤ Urban and industrial atmospheres, moderate sulfur dioxide pollution. ➤ Coastal areas with low salinity.
C4 High	<ul style="list-style-type: none"> ➤ Chemical plants, swimming pools, coastal ship and boatyards. ➤ Industrial areas and coastal areas with moderate salinity.
C5 Very High	<ul style="list-style-type: none"> ➤ Buildings or areas with almost permanent condensation and with high pollution. ➤ Coastal and offshore areas with high salinity.
C5 Industrial ⁽¹⁾	<ul style="list-style-type: none"> ➤ Industrial areas with high humidity and aggressive atmosphere. ➤ Buildings or zones with permanent condensation and high contamination.
C5 Marine ⁽¹⁾	<ul style="list-style-type: none"> ➤ Coastal areas maritime zones with high salt content. ➤ Buildings or zones with permanent condensation and high contamination.

(See our expertise with the Rust-Anode Primer)

***⁽¹⁾ C5-I, C5-M:**

Depending on type of project, it could be necessary to use the Rust-Anode Primer in duplex system to achieve long-term protection in the following environments:

- In highly acidic or highly alkaline environments
- In highly corrosive soils

OFFERED SERVICES BY THE GALVATECH 2000 TEAM:

- Technicians services for the elaboration and realization of your projects.
- We provide training in engineering and architects' firms as well as private companies on corrosion mechanisms and the Rust-Anode technology.
 - ✓ For engineers, we can issue a formation certificate that can be deducted from permanent professional learning hours.
- We participate in writing specifications for the use of Rust-Anode Primer, involving decontamination, surface preparations, application and inspection methods.
- Visual inspection services to determine the severity of corrosion and the possibility of using the Rust-Anode Primer technology.
- Training and certification of applicators.
- Training and certification of distributors.
- We support your team to develop pilot programs.
- We provide solutions with technical support and help to plan maintenance programs.



OUR EXPERTISE

DOT – DUPLEX SYSTEM

- ❖ Thermal Spray Zinc TSZ
- ❖ Rust-Anode Primer technology



- ❖ Built in 1960
- ❖ SP16 *Brush-off Blast Cleaning Non- Ferrous Metals*
- ❖ 75µm (3 mils) of metallizing
- ❖ 200µm (8 mils) of Rust-Anode Primer as TSZ sealer



DOT – Suspension Bridge (Cables)

- ❖ 50 years old cables
- ❖ Surface preparation; SP1/SP2/SP3 Hand & Power Tool Cleaning
- ❖ 3 years project 2017 -2020
- ❖ Zinc reloaded with Rust-Anode Primer



HYDRO-QUEBEC



The Hydro-Québec's structure of *Barrage des Roches* project completed in 2012. The complete upper construction of this dam has been a successful project using the Rust-Anode Primer.

Substation structures and buildings



The Rust-Anode Primer is the ideal product for buildings that have galvanized sheet roofs.

DOT - Ontario - Canada
Ministry of transportation - Marathon



The refurbishing of a retaining wall on the Trans-Canadian highway completed in 2017.

Quebec - Canada
Bridge - Steel / Wood - MTQ



Before



In progress

Quebec - Canada

Port of Sept-Îles – Rio-Tinto – IOC



Realized in 2009 for Rio Tinto.

Reservoir containing liquid calcium chloride.

In 2018, 9 years later, there are no signs of deterioration of the existing paint covering the Rust-Anode Primer.



DOT - Quebec - Canada
Ministry of Transportation – MTQ



A steel bridge of 100,000 sq. Ft, which was built about 50 years ago with hot-dip galvanized beams and reloaded with zinc using the Rust-Anode Primer in 2016.

A surface preparation SP7 (Brush Blast) was carried out before the application to eliminate the zinc oxide built up which was created with the years of service as the picture below shows.



Quebec - Canada
Charlevoix - Massif de la Petite Rivière



This new suspension bridge construction is fully protected with our technology and has been installed in 2016 at *Le Massif de Charlevoix* ski center.



DOT - Quebec - Canada

Montreal -Jacques Cartier bridge



Refurbished platforms under expansion joints using the Rust-Anode Primer.



The *Jacques Cartier Bridge* is a steel truss cantilever bridge crossing the Saint Lawrence River. The Jacques Cartier & Champlain Bridges Inc. (JCCBI), a federal crown corporation, proposes to extend the life of the Jacques Cartier Bridge until 2080, 150 years after its inauguration in 1930.

Quebec - Canada

Brompton Pont Albert Gravel



Located in the Sherbrooke area, the under structure of this entirely formerly hot dip galvanized bridge, was refurbished with the Rust-Anode Primer.



Other achievements

Port of Sept-Îles footbridge



Bridge beams



Isle-aux-Grues



Baie-Comeau, SOPOR



Arcelor – Sept-Îles



Pergola - City of Montreal





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Galvatech 2000's team



- **RUST-ANODE PRIMER, ONE COAT SYSTEM, IS A TRUSTED PRODUCT WHEN IN NEED OF A HIGH CORROSION RESISTANCE COATING ON BRIDGES AND MARINE ENVIRONMENTS.**
- **IMAGINE THE EXPECTED LIFETIME OF SUCH A SYSTEM ON LESS CORROSIVE ENVIRONMENTS**
- **RUST-ANODE RELOADS IN ZINC YOUR WORN-OUT GALVANIZED STRUCTURES TO SUSTAIN THE ORIGINAL CATHODIC PROTECTION. TRADITIONAL PAINT SYSTEMS ARE ONLY PASSIVE BARRIERS PROTECTIONS**
- **OUR EXPERIENCED TEAM OFFERS YOU AN OUTSTANDING TECHNICAL SERVICE THAT WILL ACCOMPANY YOU BEFORE, DURING AND AFTER YOUR PROJECTS**