



**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**
- **RE-GALVANIZING PROCESS**
- **PERFORMS OVER RUST**
- **PERFORMS IN SALTED AND UNSALTED ENVIRONMENTS**
- **MARINE INDUSTRIAL GALVANIZED COMPOUND  
APPLICABLE OVER ALL TYPES OF METAL SUBSTRATES  
INCLUDING ALUMINUM AND IRON CASTINGS**

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

**TECHNICAL SUPPORT WITH QUALIFIED NACE TRAINING 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 IN CANADA**

## **RUST-ANODE PRIMER**

### **TESTED BY INDEPENDENT LABS**

<u>Tests</u>	<u>Standards</u>	<u>Rust-Anode Primer</u>
Organic Rich Zinc	ONGC -1,181/CAN/ CGSB-1.181-92	Conform
Abrasion	ASTM D4060-14 1000 cycles CS10, load 1000g	116 mg
Pull-Off strenght	ASTM D4541	1200 Psi 8.27 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  <b>Corrosion: 33%</b>
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 <sup>(1)</sup>***

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

**(See our expertise with the Rust-Anode Primer)**

**\*<sup>(1)</sup> C5, C5-I, C5-M:**

Depending on the project types, it could be necessary to use duplex 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

### HYDRO-QUEBEC



Project realized in 2017 for Hydro-Québec for its use at barrage Outardes 3.



The Hydro-Québec's structure of Barrage des Roches project completed in 2012. The complete upper construction of this dam has been cold galvanized with the Rust-Anode Primer.



### Substation structures and buildings



The Rust-Anode Primer is the ideal product for buildings that have galvanized sheet roofs as it is done in Ste-Claire in 2017 on the South Shore of Quebec City.



## Ontario - Canada

Ministry of transportation - Marathon



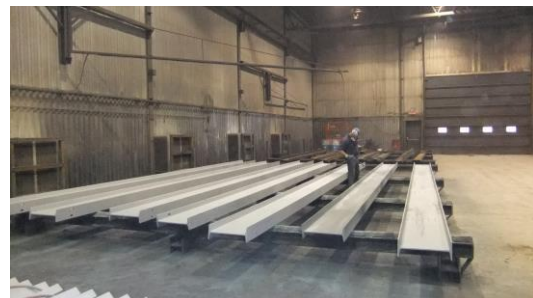
The refurbishing of a retaining wall on the Trans-Canadian highway completed in 2017. Galvanized with our technology, this wall is in contact with corrosive soils and concrete.

## Quebec - Canada

Bridge Steel / Wood - MTQ



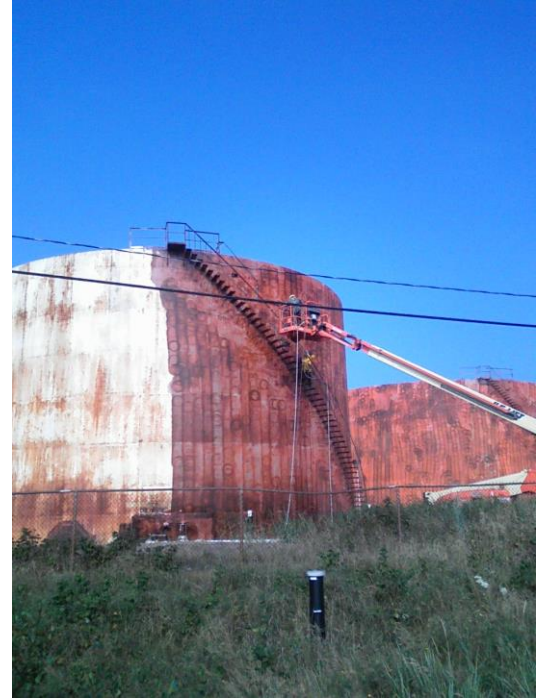
**Before**



**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.



## 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.

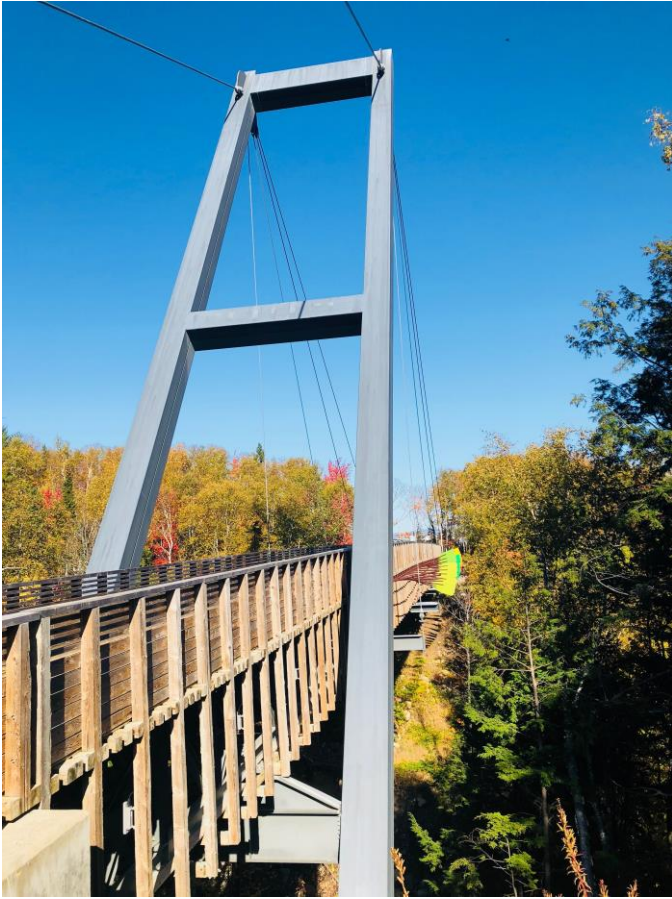
A surface preparation SP7 (Brush Blast) was carried out before the application to eliminate the zinc oxide built up which was created with the years as the picture shown below.





## Quebec - Canada

### Charlevoix - Massif de la Petite Rivière



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



## 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 understructure of this entirely formerly hot dip galvanized bridge, was refurbished with the Rust-Anode Primer.



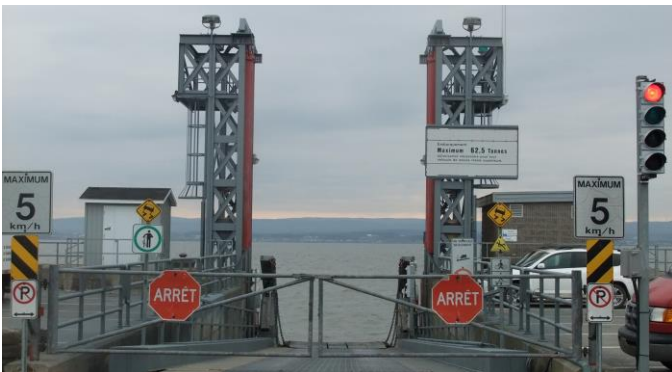
## Other achievements



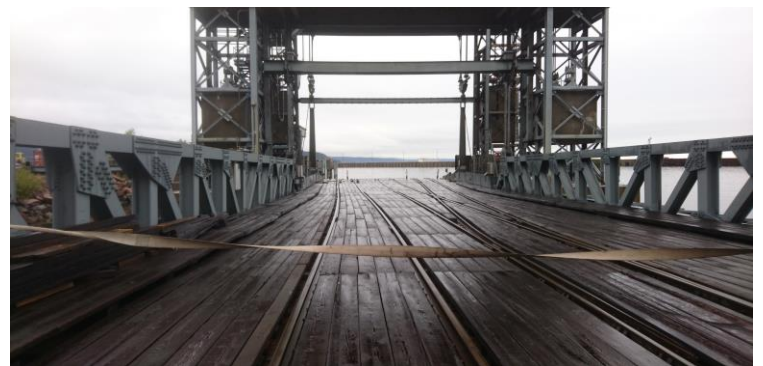
Port of Sept-Îles footbridge



Bridge beams



Isle-aux-Grues



Baie-Comeau, SOPOR



Pergola City of Montreal



Arcelor – Sept-Îles



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## Galvatech 2000's team



## CONCLUSION

- **RUST-ANODE, 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**