

Galvatech2000.com

PROTECTION SPECIALIST

AGAINST CORROSION



GALVANIZING COMPOUND AVAILABLE IN AMERICA



GALVATECH²⁰⁰⁰

RUST-ANODE® Technology

**STEEL
STRUCTURES
EXPERTISE**

**BRIDGES, STEEL CABLES,
RETAINING WALLS, TANKS,
WALKWAYS, CULVERTS, DAMS**

[See video presentation here](#)



**OUR UNIQUE GALVANIZING
TECHNOLOGY, AN EFFECTIVE
SOLUTION FOR THE PROTECTION
OF STRUCTURES.**

INDEX

3	What we do
4	Who we are / Formation program
5	The importance of maintenance
6	Bridges / Pedestrian walways
8	St-Wenceslas, Ste-Adèle, Sept-îles bridges
12	Steel cables
13	Retaining walls / Tanks
14	Dams and equipments
15	Historical structures / Canopies / Pergolas
17	Culverts / Mines/ Coastal structures
19	Technical advantages and benefits
20	Independent laboratory tests



WHAT WE DO

Since 1954 the RUST-ANODE® products have been known and applied in more than 50 countries! Their superior characteristics have placed them at the forefront of anti-corrosion solutions. Approved by the leading official laboratories in Europe and adopted by NATO forces from its beginnings, the RUST-ANODE® Technology has established itself as a World leader in guaranteeing active protection and life extension of current assets.

Our technology provides active cathodic protection to steel structures. Galvatech zinc compounds are single component products that merge with old zinc layers that recharge the cathodic protection of galvanized and metallized steel. Our revolutionary solution is perfectly adapted to be used at coating facilities and for on-site work.

They are proven anti-corrosive treatments that act as an active layer on metallic surfaces. The performance of the technology against corrosion is comparable to the Hot-Dip-Galvanization (HDG) process and significantly reduces maintenance costs of your assets compared to standard paints, allowing a low cost and effective solution.



We offer ;

- Technical support with qualified AMPP (NACE) trained technicians
- Collaboration with project managers for the preparation of technical documents
- Customer team training for a better understanding of corrosion control mechanisms
- On-site and remote technical support for the RUST-ANODE® Technology application.

Our unique technology provides ;

- Superior corrosion protection
- Excellent barrier and sacrificial corrosion protection
- Extended lifetime of maintenance programs
- Increases asset's integrity lifetime and reduces maintenance costs
- Unique zinc rich galvanizing compound
- Extra fine pure zinc atomized (99.995% purity), resulting in a greater zinc density and a performing anode
- One component that eases the application
- Provides protection in the same range as HDG
- Low VOCs; it contains an extremely low concentration of volatile organic, making it more environmentally friendly
- Zinc color mouse grey (RAL 7005)



WHO WE ARE

Galvatech 2000 is the master distributor for Rust-Anode. For Americas and Europe. SPRL is the well-known manufacturer of galvanizing compounds. With their 50,000 square foot facility includes a state-of-the-art specialized laboratory.

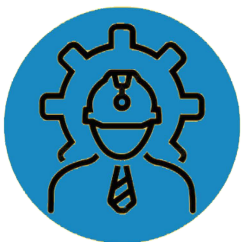


- **FREE ENGINEERS AND TECHNICIANS CORROSION FORMATION PROGRAM BY VIRTUAL CLASS.**
- **ALTERNATIVE TO HOT DIP GALVANIZING, METALLIZATION AND CORROSION BASICS.**
- **APPROVED BY MANY ENGINEERS ASSOCIATIONS**

[Click to see the topics](#)



Develop your knowledge, according to your availability in virtual class and receive an attestation



Contact François Bellefleur to reserve your formation date

francoisbellefleur@galvatech2000.com

THE IMPORTANCE OF MAINTENANCE

A study conducted by the AMPP (Association for Materials Protection and Performance) in 2021 estimated that the annual cost of corrosion in Canada at \$70.2 billions (CDN). This represents a hefty cost to the Canadian economy and highlights the importance of preventing corrosion in our infrastructures and industrial equipments.

Corrosion can have serious consequences on the safety, reliability and durability of our assets, as well as on the environment. It is therefore crucial to implement effective and preventive measures to minimize the impact of corrosion.

Galvatech and its unique galvanizing technology, is the solution for your needs and ensures the longevity protection of your infrastructures.

Investing in a maintenance solution, at the first signs of corrosion, or before, is essential and much less expensive in the long term.

We are delighted and convinced to be able to offer you a very beneficial solution for your assets.

Let's Act Now !



BRIDGES

Rust-Anode technology is one of the homologated products by the Ministry of Transportations of Quebec and Ontario.

Refurbishment of a steel-wood bridges



Jacques-Cartier bridge, Montréal, Canada

Bromptonville, Canada



BRIDGES

Rust-Anode technology is one of the homologated products by the Ministry of Transportations of Quebec and Ontario.

New structures with Rust-Anode Primer technology

Petite-Rivière St-François, Canada



Snowmobiles bridge Amqui, Canada



PEDESTRIAN WALKWAYS

Québec-Lévis ferry, Canada



Sept-Îles harbor, Canada



ST-WENCESLAS BRIDGE (1968-2022)

Ministry of Transportations of Québec (MTQ)

Re-galvanization: 2017

Length: 752 ft

Total footage: 102 000 ft²

Presence of zinc oxide, rust, and corrosion

Preparation:SSPC-SP16 Brush-off Blast Cleaning Non-Ferrous Metals

Re-Galvanized on-site with the Rust-Anode technology



project VIDEO



ST-ADÈLE BRIDGE, QC, CANADA

Quebec DOT

Metallized Bridge

Surfaces sealed with Rust-Anode Primer technology



WELLINGTON RAILWAY BRIDGE, MONTRÉAL, CANADA



White Lake Narrows Bridge, WAWA Region, CANADA

Ontario DOT



SEPT-ÎLES PORT BRIDGE, QC, CANADA



SUSTENTION STEEL CABLES (SUPPORTS)

Pierre-Laporte bridge, Canada
Quebec DOT



RETAINING WALLS

Sheet piles

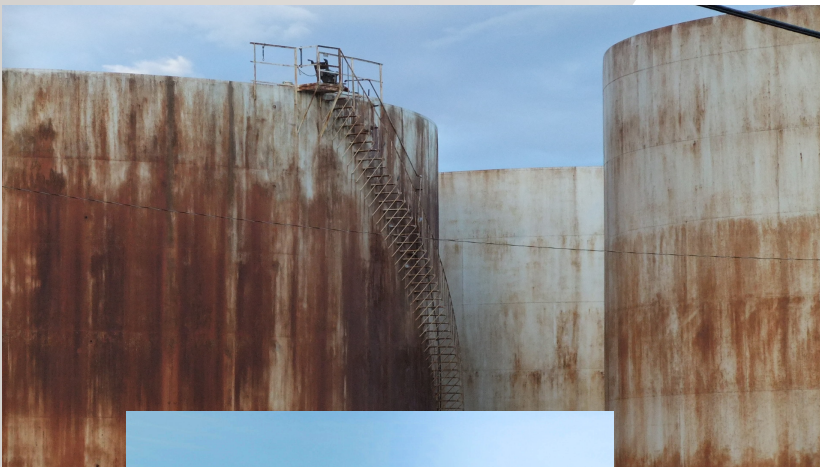


Retaining walls, Ontario, Canada



TANKS

Project realized in 2010, Sept-Îles, Canada Picture taken in 2022



DAMS AND EQUIPMENTS

(Harness of rivers)

Centre d'expertise
hydrique

Québec



Dams structures



Hydro-Québec, Control post structure, Great North



Portage des Roches dam, Ville de Saguenay, Canada

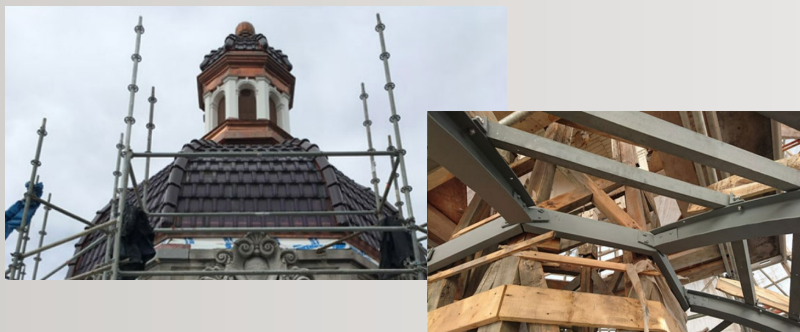


HISTORICAL STRUCTURES

Maisonnette Market
Montreal, Canada



Park Canada, railing



PARKING CANOPIES

International Airport Jean-Lesage, Quebec city, Canada



PERGOLA

Frédéric-Back Park, Montreal, Canada, architecture award



STRUCTURE

Terrebonne Police Headquarters, Canada



CULVERTS

Quebec DOT



MINE STRUCTURES



COASTAL STRUCTURES

Boarding docks, Iles-aux-Grues , Canada



Railway boarding docks, Baie-Comeau, Canada



10

TECHNICAL ADVANTAGES AND BENEFITS

- One component compound
- Easy to apply with brush, roller, spray
- Minimal surface preparation, hand or power tools
- Comparable to hot-dip galvanizing or metallization under the same environmental conditions
- No additional coat needed
- Quick-drying
- Can be applied on non-friable rust
- Increases cathodic protection, by zinc re-charging
- Can go in immersion, even in salt water
- Moisture cured without dew point restriction



INDEPENDENT LAB TESTS

TESTED BY E.P.R.I.
ELECTRIC POWER RESEARCH INSTITUTE (USA)

«In summary we may expect the benefits of an organic coating system but the performance of hot dip galvanizing if we adhere to good application and quality control procedures. »

Test name	Standard	Rust-Anode Primer	Hot-Dip Galvanized
		Evaluated by ASTM D610 (rust) and ASTM D714 (blister)	
Cyclic corrosion 10, 000 hours	ASTM D5894-10 (cold period)	Rust: none - Classified 10 Blister: none - Classified 10	Rust: none - Classified 10 Blister: none - Classified 10
Immersion Corrosion (salt water) Result at 90 days	ASTM G44-99 (2013) sodium chloride 3,5%	Rust: <0,03% - Classified 9 Blister: none - Classified 10	Rust: 33% - Classified 2 Blister: none - Classified 10

Steel samples used for tests
Surface preparation: SSPC-SP10 / NACE 2 / SA 2,5
Products tested: Rust-Anode Primer versus Hopt Dip Galvanization
Application of a single coat of Rust-Anode Primer without any paint coating

Test name	Standard	Rust-Anode Primer
Pull-off adhesion	ASTM D4541	1775 PSI, 12,24 Mpa
Organic zinc rich	ONGC-1,181/CAN/CGSB-1,181-92	Conform
Abrasion	ASTM D4060-14 1000 cycles CS10, weight 1000g	116mg
Adhesion	ASTM D3359	5B
Hardness	ASTM D3363	5H
Impact	ASTM D2794, 100 inch-pounds	No crack
Flexibility - Folding - Plasticity	ASTM D522, Conical Mandrel 1/4", 180°	Elongation: 15%
Combustion toxicity	DEF STAN 02-713	Conform
UV	ASTM G154-12a	Little effect
Salt Spray	ASTM B117	Excellent
Corrosion resistance	ISO 12944-6/7253	C5-VH

PROTECTION SPECIALIST AGAINST CORROSION



CONTACT

François Bellefleur

Technical Director Canada

Galvatech2000.com

francoisbellefleur@galvatech2000.com

Cell. 438-500-4438

Office 1-888 743-2046

CONCLUSION

- Rust-Anode is a unique galvanizing compound for new or old (galvanized or not) structures.
- Rust-Anode, a one coat galvanizing system.
- A trusted product, when recoating is required such as on bridges and structures in marine environments.
- Imagine the expected life of a such system in less corrosive environments.
- Traditional paint systems are offering a limited life protection.

Our experienced team offers unparalleled technical service, that supports you before, during and after your projects.