



GALVATECH

INNOVATION
PROTECTION
DURABILITY

for over
50 YEARS

REDUCE your CARBON FOOTPRINT with RUST-ANODE technology



PROTECT
infrastructure
and the environment



PERFORM
in the most demanding
environments



EXTEND
asset service life
and reduce costs



SUSTAINABLE DEVELOPMENT



Sustainable development is a concept that aims to meet the needs of the present without compromising the ability of future generations to meet their own needs.

It is based on three fundamental pillars:



Environmental
(environmental)



Social



Economic



ENVIRONMENTAL (Environmental)

Preserve and restore natural resources, limit pollutant emissions, reduce waste, and protect biodiversity.



SOCIAL

Promote equity, social justice, and improve living conditions for all by ensuring fundamental rights such as education, healthcare, and work.



ECONOMIC

Encourage sustainable economic growth that is viable over the long term while respecting the planet's limited resources.



IN CONCLUSION

WITH RUST-ANODE PRIMER AND ITS CATHODIC PROTECTION,

we protect metals against corrosion for a very long time and help preserve existing infrastructure while preventing the manufacturing of new materials and reducing waste and emissions.



**CATHODIC
PROTECTION**
100% PURE ZINC



**HIGH
PERFORMANCE**
C3 TO C5-VH



**EXCEPTIONAL
DURABILITY**
UP TO 2 TIMES
LONGER



**SUSTAINABLE
SOLUTION**
RESPONSIBLE
AND EFFECTIVE

BENEFITS OF RUST-ANODE PRIMER

VERSUS HOT-DIP GALVANIZING AND PAINT SYSTEMS

1

LOWER INITIAL COST



The initial cost will be lower than hot-dip galvanizing, including surface preparation and labor costs.

2

SUPERIOR PROTECTION



The corrosion protection will be greater than industrial paint systems, with cathodic protection in marine and highly aggressive industrial environments CS-VH.

3

EXTENDED SERVICE LIFE



The service life will be about **twice** that of paint systems.

4

SIMPLIFIED MAINTENANCE



No mechanical surface preparation required and reduced maintenance frequency.

5

SUPERIOR ZINC THICKNESS



Rust-Anode Primer provides a zinc thickness **superior** to that of hot-dip galvanizing, thereby extending the service life of the protection. It is also used by galvanizers for hot-dip galvanizing repairs.

6

REDUCED CARBON FOOTPRINT



Using Rust-Anode Primer **reduces** the carbon footprint by giving infrastructure a second life.



THE INNOVATION OF GALVATECH

Achieve the same performance as hot-dip galvanizing with a single product.



SIMPLE APPLICATION

with conventional coating equipment



MULTIPLE APPLICATION METHODS

by brush,
roller or
spray



PROVEN PERFORMANCE

in the most
demanding
environments
(C3 to C5-VH)



CALCULATING CARBON FOOTPRINT

Methodology and elements taken into account

1. WHAT IS INCLUDED IN THE CARBON FOOTPRINT CALCULATION



Extraction of raw materials and their transportation



Manufacturing of the coating



Manufacturing of containers



Transportation from the factory to the job site



Surface preparation and coating application



Waste disposal

2. ADDITIONAL ELEMENTS THAT MUST ALSO BE INCLUDED



Emissions associated with the production of electricity for manufacturing, application, electric vehicles, and other energy uses



Emissions associated with the production of fuel for all transportation activities



Emissions from the value chain (including all greenhouse gas emissions from indirect products)

3. HOW TO CALCULATE THE CARBON FOOTPRINT

1

DEFINE THE SCOPE AND FUNCTIONAL UNIT



Define system boundaries (what is included) and the functional unit (e.g.: 1 liter of coating applied on 1 m² of protected surface).

2

COLLECT ACTIVITY DATA



Quantities of raw materials, distances traveled, energy consumed, waste generated, etc.

3

APPLY EMISSION FACTORS



Use recognized emission factors (official databases: ecoinvent, National GHG Protocol, Environment Institute, etc.).

4

CALCULATE EMISSIONS BY STEP



Emissions (kg CO₂e) = Activity data × Emission factor for each source.

5

SUM AND ANALYZE THE RESULTS



Add emissions from all steps and analyze the most emitting sources.

4. RESULT



The final result is expressed in kg CO₂e according to the chosen functional unit. This assessment helps identify the main contributors and implement effective reduction actions.



This methodology is based on the principles of ISO 14040/14044 (LCA) and the GHG Protocol.



SCENARIO FOR CALCULATING CARBON FOOTPRINT

MONTREAL PROJECT



1000 ft² OF STEEL



YEAR 0: SURFACE PREPARATION
SSPC SP6 (ABRASIVE BLASTING)



APPLICATION WILL BE DONE
WITH AIRLESS SPRAY ON SITE



ESTIMATED PRODUCT LOSS
5 % DURING APPLICATION



RUST-ANODE PRIMER (1 COAT 5 MILS DRY,
COATING MANUFACTURED IN BELGIUM)
VS



PAINT SYSTEM
(2 COATS EPOXY, 2 x 4 MILS DRY
AND 1 COAT POLYURETHANE 4 MILS DRY,
PAINTS MANUFACTURED IN CLEVELAND, OHIO)



SERVICE LIFE: 50 YEARS



MAINTENANCE INTERVALS
AS SHOWN



CALCULATION DONE FOR
C3 AND C5 ENVIRONMENTS



COMPREHENSIVE APPROACH

All relevant elements
are taken into account
to obtain accurate
and representative
results.



RIGOROUS METHODOLOGY

Our calculations follow
international standards
recognized for
life cycle analysis.



TRANSPARENT DATA

Data sources
are documented
and verified to ensure
full transparency.



COMPARABLE RESULTS

Fair comparisons
between different
corrosion protection
solutions.



INFORMED DECISIONS

Reliable information
for sustainable
and responsible
choices.



SUPERIOR PROTECTION

Proven performance
in the most
aggressive
environments.



EXCEPTIONAL DURABILITY

Up to 2 times longer
than conventional
coating systems.



REDUCED MAINTENANCE

Fewer interventions,
lower operating
and maintenance
costs.



REDUCED IMPACT

Lower CO₂ emissions
and reduced
resource
consumption.

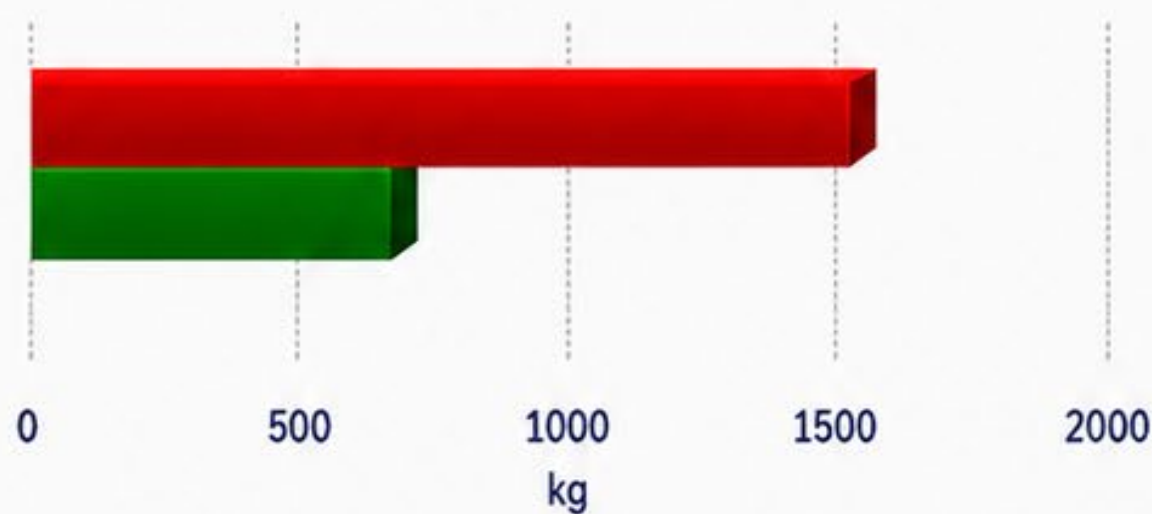


SUSTAINABLE SOLUTION

A responsible choice
for the future
of our infrastructure.



C3 ENVIRONMENT (90% OF PROJECTS)



CARBON FOOTPRINT

Paint systems 1465 kg CO₂e

Rust-Anode Primer 632 kg CO₂e



56,9%



EMISSIONS (VOC)

Paint systems 830.9 kg

Rust-Anode Primer 357.1 kg



64,3%

■ PAINT SYSTEMS ■ RUST-ANODE PRIMER



The Carbon Footprint of hot-dip galvanizing would be approximately 8400 kg CO₂e.

IN A C5 ENVIRONMENT



CARBON FOOTPRINT

Paint systems 1570 kg CO₂e

Rust-Anode Primer 838 kg CO₂e



46,6%



EMISSIONS (VOC)

Paint systems 889.0 kg

Rust-Anode Primer 474.0 kg



53,8%

■ PAINT SYSTEMS ■ RUST-ANODE PRIMER



Results are expressed in kg CO₂e or kg and represent a comparison between traditional paint systems and Rust-Anode Primer.

With Rust-Anode technology SAVINGS

ALL THE BENEFITS. A CONCRETE IMPACT.

Rust-Anode technology allows you to reduce your costs, your interventions and your carbon footprint at every stage.

1 PREPARATION



Less preparation → Greater simplicity
Less maintenance → Greater longevity
Fewer interventions → Greater peace of mind

2 APPLICATION



Less product → Greater coverage
Lower costs → Greater value

3 ENVIRONMENTAL PERFORMANCE



Lower VOC → Better environmental performance
Lower resource use → Greater efficiency
Lower operating costs today → Greater long-term savings
Lower carbon → Greater durability

4 FLEXIBILITY AND MANAGEMENT



Fewer constraints → Greater flexibility
Lower risks → Greater confidence

5 LONG-TERM DURABILITY



Less corrosion → Longer service life
Less maintenance → More uptime

6 GLOBAL VALUE



Fewer interventions → Greater value



FEWER INTERVENTIONS



LOWER COSTS



LOWER CARBON FOOTPRINT



CARBON FOOTPRINT
REDUCED BY

50%*
AND MORE!



* Compared to conventional paint systems (according to our C3 and C5 scenarios).

A WINNING CHOICE AT EVERY LEVEL



Proven performance
High-durability cathodic protection



Better for the environment
Lower emissions at every stage



More value in the long term
Lower costs, greater savings



Simplicity and efficiency
Faster and more efficient operations



NEW PROJECT

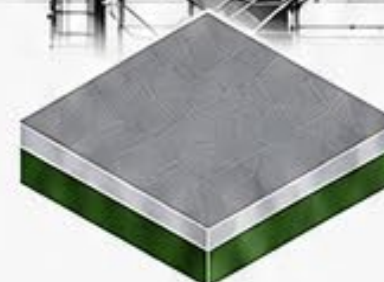
Coating and maintenance cost
evaluation for 50,000 ft² of steel
Service life: 50 years
C3 environment according to AMPP



**EPOXY / POLYURETHANE
PAINT SYSTEM**



HOT-DIP GALVANIZING



RUST-ANODE PRIMER



INITIAL APPLICATION COST

In shop

SP6 surface preparation
Époxy + Application
Polyurethane + Application

Initial total **\$5.49 / ft²**

Galvanizing baths at plant

\$0.55 / lb

Initial total **\$5.62 / ft²**
(Transportation not included)

In shop

SP6 surface preparation
Rust-Anode Primer + Application

Initial total **\$5.01 / ft²**

MAINTENANCE COST ON SITE OVER A 50-YEAR CYCLE

Year

14th - touch-ups = initial X40%
21st - touch-up + 1 coat = initial X73%
28th - overhaul X135%
42nd - touch-ups = initial X40%
49th - touch-up + 1 coat = initial X73%

Year

50th - touch-ups

**with
Rust-Anode Primer**

Year

50th - touch-ups = initial X40%

**with
Rust-Anode Primer**

TOTAL COST AFTER 50 YEARS

Initial total + maintenance over 50 years
\$19.82 / ft²

Total per year **\$0.40 / ft²**

Initial total + maintenance over 50 years
\$7.62 / ft²

Total per year **\$0.15 / ft²**

Initial total + maintenance over 50 years
\$7.01 / ft²

Total per year **\$0.14 / ft²**

**TOTAL PRICE
\$991,000**

**TOTAL PRICE
\$381,000**

**TOTAL PRICE
\$355,000**



Galvatech is more than just an alternative. It's an upgrade to the protection standard.
Fewer interventions. Better performance. More control.

THE TEAM AND SERVICES OF GALVATECH

— Comprehensive expertise to protect your infrastructure —



CORROSION PROTECTION

- Expertise in **corrosion** protection
- Expertise in **coating** systems



FIELD EXPERTISE

- Extensive **field** experience
- Qualified inspector
AMPP / NACE Level 2



QUOTATIONS & SPECIFICATIONS

- Preparation of quotes and technical specifications
at **no cost** for your project



ASSESSMENT & STRATEGY

- Assessment of the condition of infrastructures
- **Maintenance** plans and protection **strategies**



SUPPORT & PARTNERSHIP

- Technical **support** and project management
- **Global** distribution network



TRAINING & APPLICATORS

- Network of qualified professional **applicators**
- **Free** technical training



ENHANCE YOUR SKILLS



Our experts provide
free technical training.



Recognized by the **Ordre des ingénieurs du Québec** and the **RBQ**.



OUR MISSION

Provide durable and high-performance solutions.



OUR COMMITMENT

Deliver durable tools and customer satisfaction.



OUR VISION

Be a trusted partner on a global scale.



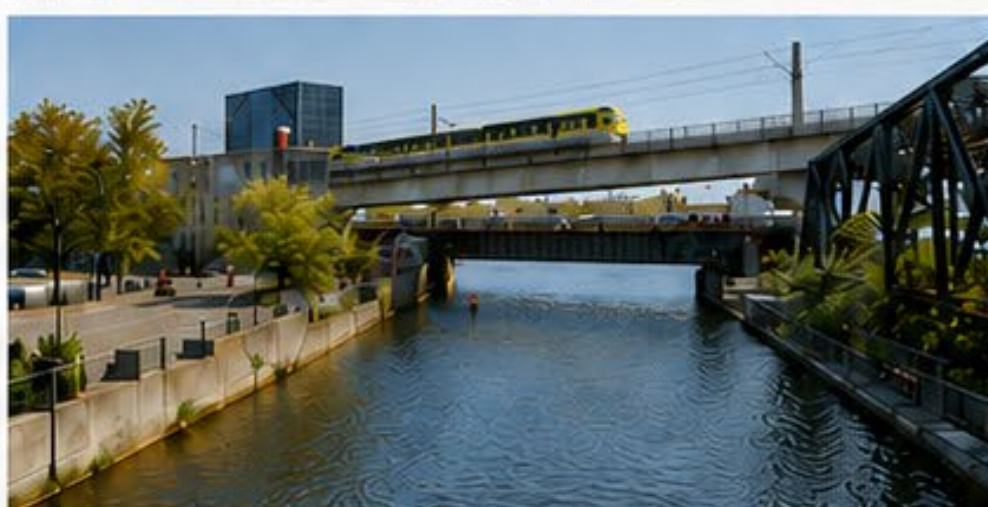
10,000+ GALVANIZED TRANSMISSION TOWERS



102,000 ft² OF STEEL PROTECTED
ON A QUÉBEC MINISTRY OF TRANSPORTATION BRIDGE



15 YEARS OF ACHIEVEMENT
IN C5-VH ENVIRONMENTS



Large-scale projects delivered with
performance, durability and reliability.

Galvatech.
Protection that lasts.

GALVATECH



418-743-2046
1-888-743-2046



www.galvatech2000.com
info@galvatech2000.com



304 Ploudre
St-Léon le Grand, Qc
G0J 2W0



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