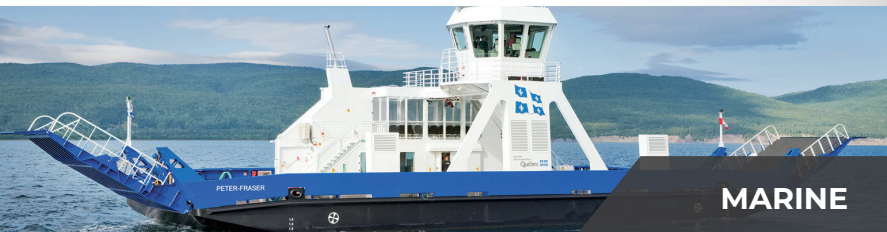




RUST-ANODE® Technology



MARINE



TRANSPORT



TOWERS



BRIDGES



STRUCTURES

The alternative to the hot-dip galvanizing process

The new galvanizing Technology

RUST-ANODE® Technology

This technology uses cathodic protection created by the electrochemical bond of the product to the substrate providing comparable protection to hot-dip galvanization.

Compared with a hot-dip galvanization, metallization and electrolytically applied at equal thickness; it offers the same cathodic galvanizing performances.

Applicable over rust without compromising performances. It turns the rust into ferric hydroxide, thus making the electrochemical connection possible by penetrating through this layer. The cathodic protection remains.

The Rust-Anode® technology follows thermal expansions and deformations of the substrate without cracking. Additionally, it may be top-coated by most paint products.

On older galvanized structures with a worn out cathodic protection, the Rust-Anode® technology **IS THE SOLE TECHNOLOGY** able to perfectly merge with the existing zinc in order to recharge the cathodic protection.

It is thus possible, with the Rust-Anode® technology, to give a second life to existing galvanized structures without dismantling them. No other product can offer this unique advantage.

The Rust-Anode® technology is used in corrosive and aggressive sectors. This technology was also used by the NATO military forces since 1954 up to 2003. It is approved for use on non food contact surfaces by the Canadian Food Inspection Agency. Rust-Anode Primer® is approved by Transports Québec (MTQ Canada) and by the Road Authority ON (MTO Canada).

The product is a pure zinc 99.995% compound with at least 90% of zinc in the dry film, creating an electrochemical bond with the substrate.

APPLICATION



Brush



Roller



Paint Gun



Air less

ADVANTAGES, PROJECTS & SPECIFICATIONS



RUST-ANODE® Technology ADVANTAGES

HOT-DIP
GALVANIZATION



Cathodic protection	X	X
Longevity of the protection	X	X
High resistance in saline mediums	X	X
Approved by Health Canada	X	X
Equivalent protection to hot-dip galvanized	X	X
Zinc thickness control		X
Surface uniformity		X
Minimal lead time		X
Weldability		X
Touch-ups at any time		X
Easy to apply		X
Non-High Energy Process		X
Can recharge worn out existing zinc		X
Minimal substrate preparation		X
Applied with standard equipment		X
Will not deform galvanized parts		X
Can be applied to various metals		X
Flexible when bent		X
Easily integrable to your production time frame		X
Non-polluting process for the environment		X

RUST-ANODE® Technology PROJECTS



RUST-ANODE® Technology SPECIFICATIONS

PERFORMANCE CHARACTERISTICS

Steel samples

Surface preparation: SSPC-SP10 / NACE 2 / SA 2.5

Products tested: Rust-Anode® Primer versus Hot-dip galvanized

Application of a single coat of Rust-Anode® Primer without any top coating

TEST NAME	STANDARD	RUST-ANODE® Primer	Hot-dip galvanized	
Cyclic Corrosion	ASTM D5894-10 with cold period, 10,000 hours	Blister: Passed Corrosion: Passed	Blister: Passed Corrosion: Passed	
Corrosion by immersion	ASTM G44-99 (2013) 3.5% Sodium Chloride, 90 day results	Blister: Passed Corrosion: < 0,03%	Blister: Passed Corrosion: > 33%	
Coating rich in organic zinc	ONGC -1,181/CAN/CGSB-1.181-92	Approved	N/A	
Abrasion	ASTM D4060-14 1000 cycles CS10, charge 1000g	116 mg	N/A	
Perpendicular pulling	ASTM D4541, 27 mm, 1mm/mn, 343 psi	Excellent	N/A	
Adhesion	ASTM D3359	100% (5B)	N/A	
Hardness	ASTM D3363	Excellent (5H)	N/A	
Impact	ASTM D2794, 100 pounds, impactor 0,625 inches	No cracks	N/A	
Flexibility-Folding-Plasticity	ASTM D522, tapered mandrel, 180°	Elongation: 15%, Resistance: 1/4 in	N/A	
UV	ASTM G154-12a	Little effect	N/A	
Salt spray	ASTM GB117/ISO 12944-6/7253	Excellent	Excellent	
Chemical Resistance, 30 days complete immersion	Diesel	Blister: none Adhesion: 100%	Corrosion: none Hardness: Low H	N/A
	Gaz	Blister: none Adhesion: 100%	Corrosion: none Hardness: Low 2H	N/A
	Hydraulic Fluid (Skydrol)	Blister: very little Adhesion: 100%	Corrosion: none Hardness: Failure	N/A
	Urea	Blister: none Adhesion: 100%	Corrosion: none Hardness: Low H	N/A
	Acetone	Blister: none Adhesion: 100%	Corrosion: none Hardness: Low H	N/A
	Brake fluid	Blister: none Adhesion: 100%	Corrosion: none Hardness: Failure	N/A

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