



## Corrosion Protection for Enclosures

**Rex Power Magnetics Enclosures** are designed in accordance with

- . CSA-22.2 No. 47 (General Purpose)
- . CSA-22.2 No.94 (Specialty Enclosures)
- . NEMA 250
- . UL 50 and UL 50E

Standard Rex Enclosures are fabricated with cold and hot rolled steel and are cleaned, degreased and pre-treated, before the application of electrostatic powder paint and full oven curing.

### Cleaning and Pre-treatment

Three stage alkaline cleaning and degreasing, iron phosphate conversion coating and double rinse.

### Powder Paint Application

Electrostatically applied ASA 61 Grey Polyester powder paint followed with full oven curing.  
Average paint coating thickness; 3.0 Mils.

This process provides corrosion resistance to 600 hours of Salt spray testing as specified by applicable North American standards for outdoor industrial enclosures.

This level of corrosion protection is sufficient for most indoor or outdoor applications where the transformer is energized soon after installation and will provide many years of corrosion free service. An energized transformer provides the necessary heat that keeps the core & coil and the enclosure free of any condensation or moisture that propagates premature corrosion.

Therefore, additional levels of corrosion protection should be considered if the transformer will be;

- 1, Installed in close proximity of the coast and exposed to salinity and sea fog.
- 2, Exposed to corrosive fumes present in the application environment.
- 3, Stored outdoors de-energized for long periods of time.

**Rex offers two additional levels of corrosion protection for enclosures.**

- A, Primer and double coating of paint providing corrosion resistance to 800 hours of salt spray testing.
  - B, Fabricated from Stainless steel with or without powder paint coating.
- Contact Rex Sales for additional charges that apply.

Scratches or nicks introduced during shipping or installation will also drastically reduce the level of corrosion protection afforded if not appropriately touched-up.

**Eventually all paint will fade and metal enclosures will corrode. However, appropriate selection of available pre-treatment and paint options will ensure many years of satisfactory service.**

**Rex Power Magnetics**