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Electroplating & Electroless Plating

WebCorr has [NACE certified Corrosion Specialist \(#5047\)](#) providing customized training courses, expert witness and litigation support, consultancy and failure analysis services related to paints & metallic coatings including thermal spray metallizing, galvanizing, anodizing, chromating, phosphating, electroplating, electroless plating, mechanical plating, and sheradizing or diffusion coating.

- Selection of coatings and paints to meet your project requirements
- Review of technical specifications on your coatings related project to identify potential corrosion failures, compatibility and performance of coatings, and any clauses in the specification that may lead to potential dispute, arbitration or litigation between the contractors and and facility owners. Corrosion liability can be avoided through proper specifications.
- Coatings inspection and performance evaluation
- Quality assessment of electroplated and electroless plated coatings
- Optimization of process parameters in plating operations
- Recommend optimal coating thickness for specific applications
- Life prediction of paints & metallic coatings including thermal spray metallizing, galvanizing, anodizing, chromating, phosphating, electroplating, electroless plating, mechanical plating, and sheradizing
- Failure analysis of paints & metallic coatings including thermal spray metallizing, galvanizing, anodizing, chromating, phosphating, electroplating, electroless plating, mechanical plating, and sheradizing
- Expert witness and assistance in litigation and arbitration matters related to paints & metallic coatings including thermal spray metallizing, galvanizing, anodizing, chromating, phosphating, electroplating, electroless plating, mechanical plating, and sheradizing or diffusion coating.

Typical Services Provided to Clients:

- Assessment of the corrosion resistance of electroless Ni-P coatings on aluminum substrate
- Investigation of the effect of alloying elements on the corrosion resistance of electroless nickel (Ni-P-Cu, Ni-P-Mo and Ni-P-Sb)
- Assessment of the corrosion resistance of gold and gold-PTFE plating in printer inks
- Corrosion failure of electroless nickel plating in an offshore oil drilling rig installation
- Expert witness in a litigation case related to corrosion of silver coatings on mirrors

Training Courses Related to Electroplating & Electroless Plating

The following training courses are related to electroplating & electroless plating. They can be conducted at any time for you as in-house training, online or distance-learning modules. Public courses, seminars and workshops are also conducted regularly. The schedule of public courses for the current year is available [here](#).

- Electrochemical Processes in Metal Plating
- Protective Coatings: Inspection, Maintenance and Repair
- Electrochemical Impedance Spectroscopy - Measurement, Modeling, Data Interpretation and Applications

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