



• Consulting • Training • Expert Witness • Failure Analysis • Design Review • Corrosion Test • Inspection • Coatings • Materials • CP • >>>

Galvanizing, Chromating and Phosphating

WebCorr has NACE certified Corrosion Specialist providing customized corrosion training courses, corrosion expert witness and litigation support, corrosion consultancy and corrosion 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 facility owners. Corrosion liability can be avoided through proper specifications.
- Coatings inspection and performance evaluation
- Quality assessment of galvanized, chromate and phosphate coatings
- Optimization of process parameters in coatings operations
- Recommend optimal coating thickness for specific applications
- Measurements of impedance and (or) admittance of chromated aluminium in accordance with relevant ASTM, BS and ISO standards
- Testing and equivalent circuit modeling of chromated aluminum with electrochemical impedance spectroscopy (EIS)
- 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:

- Expert witness in a case involving silver coatings on mirrors
- Expert witness in a case involving bath formulations for electroless nickel plating
- Corrosion analysis and life prediction of roof deck assembly
- Failure analysis of chromated aluminum parts
- Corrosion resistance of phosphated steel
- Assessment and evaluation of hot-dip galvanized steel parts used in slope stabilization structures
- Life prediction of hot-dip galvanized coatings
- Life prediction of galvanized steel in military vehicles

Corrosion Training Courses Related to Anodizing, Galvanizing, Chromating & Phosphating

The following training courses are related to metallic coatings: anodizing, chromating, galvanizing and phosphating. They can be conducted at any time for you as in-house training, online or distance-learning modules.

Hot Dip Galvanizing - Processes, Properties and Applications

Protective Coatings: Inspection, Maintenance and Repair

Electrochemical Impedance Spectroscopy - Measurement, Modeling, Data Interpretation and Applications

Electroplating Technology for the Microelectronics and Semiconductor Industry

An Advanced Course in Electrodeposition

Public courses, seminars and workshops are also conducted regularly. The schedule of public courses for the current year is available [here](#).