

# Types of Corrosion Resistance Coatings

Anodizing



Galvanizing



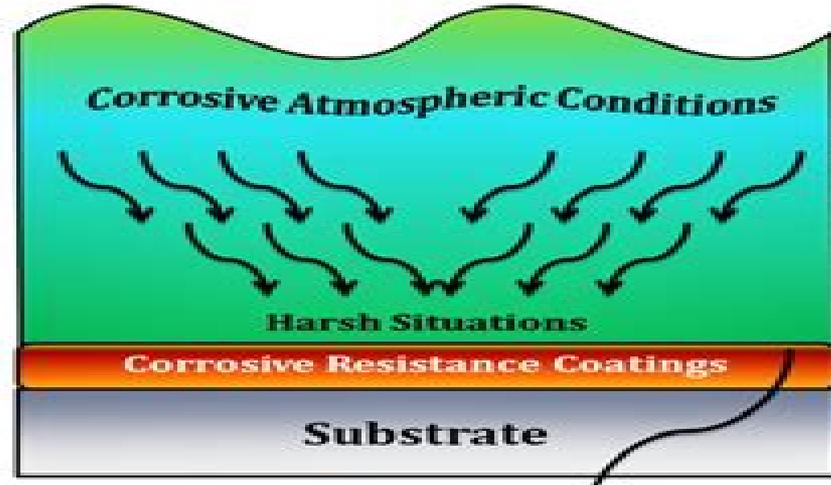
PEO



Chromating



Ceramic Spray



# Various Corrosion Conditions

Galvanic



Caustic Agent



Microbial



General



Stress Corrosion Cracking



## Benefits

Reduce repair costs, Prevent operation malfunctions, Extend equipment service life, Avoid legal and environmental issues



## High Temperature

- Environment
- Temperature
- Coating structure and chemistry
- Fuel contaminants
- Alloy substrate



## Wear

- Temperature
- Sliding speed
- Hardness
- Elasticity modulus
- Load
- Composition of material



## Corrosion

- Diffusion
- Temperature
- Conductivity
- Type of ions
- pH value
- Electrochemical potential

Factors Influencing Properties

# Corrosion Resistant Coatings Technology

**Michael Hoelscher**



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