



**AMERICAN  
BOLT & SCREW**



# CARGOGUARD

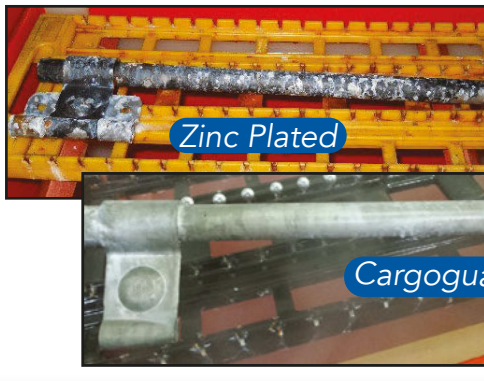
Cargoguard™ coating is one of the leading organic coatings regarded by companies worldwide and is a proven and efficient coating system to many industries. Water-based and VOC compliant, Cargoguard is comprised mainly of overlapping zinc and aluminum flake in an inorganic binder.

## FOUR WAY CORROSION PROTECTION

- Barrier Protection - Overlapping zinc and aluminum flakes provide an excellent barrier between the steel substrate and the corrosive chemical
- Galvanic Action - Zinc corrodes to protect the steel base
- Passivation - Metal oxides slow down the corrosion process of zinc and steel to provide up to 3 times greater corrosion than pure zinc
- Self-Repairing - Zinc oxides and carbonates migrate to the damaged area of the coating to actively repair the coating and restore barrier protection

## FUNCTIONAL & ENVIRONMENTAL BENEFITS

- Cleared by the Environmental Protection Agency (EPA) and OSHA compliant
- No Toxic Metals - Free of nickel, cadmium, lead, barium and mercury
- Water Based - Free of dangerous solvents
- Contains low volatile organic compounds, below federal and state regulations
- Thin - Only 5-7 microns
- Hydrogen Embrittlement free process - does not require acid pickling or involve electroplating
- Bimetallic Corrosion Resistance - Aluminum flake eliminates the typical bimetallic cell of most zinc coatings when mated with aluminum or steel
- Solvent Resistant - Inorganic nature causes it to be resistant to organic solvents
- Heat Resistant - Maintains corrosion resistance even following a heat shock of 3hrs @ 550 degrees farenheight
- Conductive - Concentration of metallic flake allows an electrical current to be passed to the substrate



## CORROSION RESISTANCE

- Salt Spray - The Cargoguard coating system provides salt spray protection (per ASTM B-117/ISO 9227) in excess of 1,000 hours

*Photos show a comparison after 1,000 hours of standard zinc plating and Cargoguard coating.*



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