



# Wipe O Rust

## Nanoengineered Anticorrosion Paint

### Concepts of Corrosion

The gradual destruction of materials (Usually a metal) by chemical or electrochemical reaction with their environment

The majority of metallic materials, particularly active metals such as carbon steel on exposure to saline and acidic environmental conditions during their applications deteriorate and fail prematurely

Corrosion factor is very costly and has a major impact on the economies of industrial nations companies

A major share of this loss can be prevented by using corrosion control method

### Methods of Corrosion Protection

#### Active corrosion protection

Active corrosion protection alters the reaction that take place during corrosion. E.g. corrosion resistant alloys and corrosion inhibitors

#### Passive corrosion protection

The damage is prevented by mechanically isolating the package contents from the aggressive corrosive agents, for example by using protective layers, films or other coatings

### Highlights of Wipe O Rust Anticorrosion Paint

#### *The Anticorrosion Paint Consists of*

- Cathodic Inhibitor - Part is more electropositive than iron and conventional zinc hence therefore prevents cathodic corrosion
- Anodic Inhibitor - Two separate inhibitors combines with the iron ions to form an impermeable passive layer on the metal surface
- The Nano sized constituents provide a high surface area for the inhibition along with high stability of inhibitor dispersion in the pigmented system

Wipe O Rust prevents corrosion both by active and passive methods. The nano sized corrosion inhibitors enhances the active protection and extends the life of the painted structure