

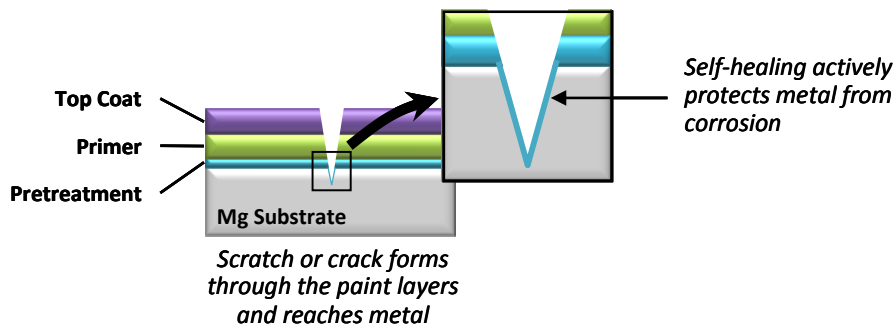
NANOMYTE® PT-60

Chromate-Free Self-Healing Pretreatment for Magnesium



Magnesium is of increasing interest to industries such as automotive, construction, medical devices and electronics, as well as the military. The light weight and high strength of magnesium are attractive features, but Mg alloys also have the tendency to rapidly corrode. Traditional coatings made with chromate (hexavalent chromium) provide sufficient corrosion resistance, but are no longer acceptable due to their adverse environmental, health, and safety affects.

NANOMYTE® PT-60 is a chromate-free, self-healing conversion coating for magnesium that is a drop-in replacement for chromate. It can be applied as a thin (~5 µm) conversion coating that protects the metal from corrosion, or as a pretreatment that improves adhesion with overlying paint.



FEATURES OF PT-60

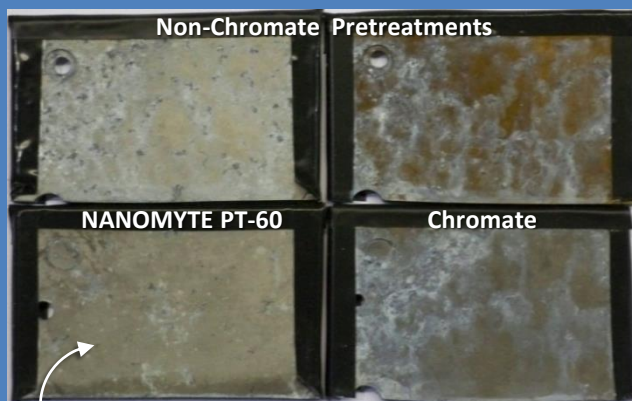
- Single component, waterborne solution
- Contains no chromate or VOCs
- Ambient temperature bath preparation
- One-step immersion process and air dry
- Excellent paint adhesion
- Versatile self-healing technology

BENEFITS

- Eliminate chromate from the coating process
- Inhibit general and galvanic corrosion of cast and wrought magnesium alloys
- Standalone treatment or pretreatment used in conjunction with other primers or paints

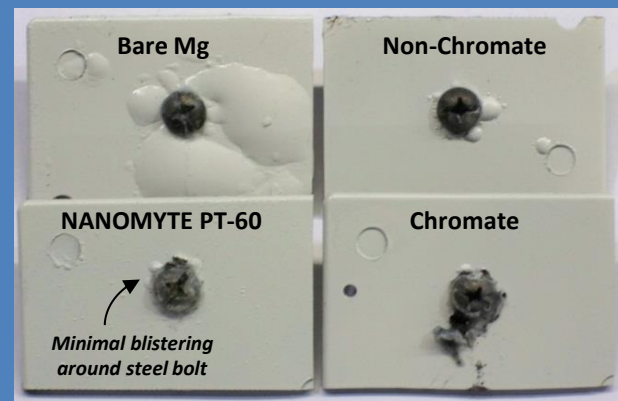
Salt Fog Exposure

ASTM B117, 100 hours



Galvanic Corrosion

ASTM B117, 100 hours



Bolts are zinc-plated steel