

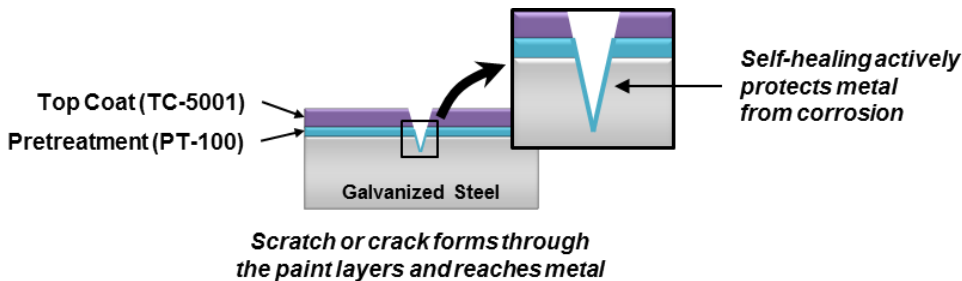
NANOMYTE® PT-100 + TC-5001

Self-Healing Coating System for Galvanized Steel

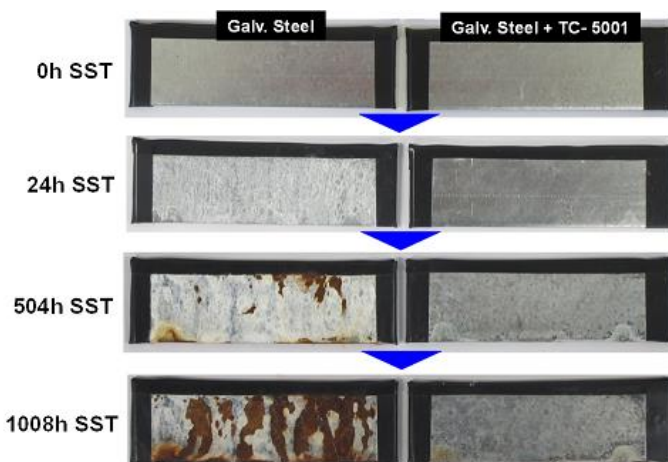


Galvanization alone does not provide prolonged corrosion protection, as steel still suffers from white and red rust. NEI's self-healing coating system for galvanized steel combines a self-healing pretreatment (PT-100) with a hard, durable barrier coating (TC-5001) to provide superior corrosion protection.

NANOMYTE® PT-100 is a chromate-free, self-healing conversion coating for galvanized steel. The thin, submicron conversion coating can be applied directly to the metal to prevent corrosion, or as a pretreatment that improves adhesion with an overlying topcoat (such as TC-5001). **NANOMYTE® TC-5001** is a one component protective coating applied either on top of the pretreated surface or directly on bare metal. It acts as a dense, hard and durable coating that inhibits moisture penetration. The coating also reduces the chipping of paint, as often observed on galvanized steel. The formulation can be tailored to meet customers' specifications and can be customized to be microns to mils thick.



Self-healing PT-100 combined with TC-5001 protects metal from corrosion



Clear TC – 5001 coating on galvanized steel provides significant corrosion protection: no red rust even after 1000 continuous hours of Salt Spray Testing (ASTM B117)

PT-100 FEATURES

- 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

TC-5001 FEATURES

- Hard, dense nanocomposite barrier coating
- Corrosion, chemical, and abrasion resistant
- Available in clear or 20 different translucent color stains
- Gloss, satin, or matte finish

SYSTEM BENEFITS

High Performance

Corrosion protection, stain resistance, hard to scratch or chip, water repellant, will not break down in sunlight, anti-fouling, self-healing

Easy Application

Dip, spray, or brush on

Cost Effective

Cost per square foot savings over traditional coatings, labor cost savings, protects the initial substrate investment

Environmentally Smart

Chromate-free, low VOCs, no heavy metals, no peeling or flaking into water or soil