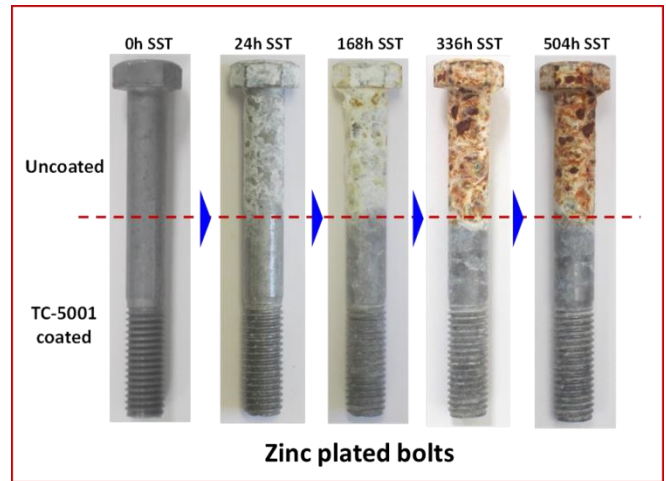


March 11, 2014



NEI Introduces Self-healing Anti-corrosion Coating for Zinc-Plated and Galvanized Steel

Somerset, New Jersey – [NEI Corporation](#) recently introduced NANOMYTE® TC-5001, a nanotechnology-enabled, single component, clear coating that significantly improves the corrosion resistance of zinc-plated and hot-dip galvanized (HDG) steel. It is amenable to dipping, brushing, and spray coating. The new coating technology is designed to protect zinc-plated and galvanized steel surfaces from rusting under severe environmental and operating conditions. Applications of the coating technology include protecting outdoor structures (e.g., electrical grid structures, street lights, and lattice beams), hardware (e.g., rods, pipes, nuts, bolts and screws), automotive components and farming equipment. The dense barrier coating can be used as a standalone coating, as well as in combination with NANOMYTE® PT-100, a self-healing conversion coating. In salt-spray tests (SST, ASTM B117), uncoated zinc-plated steel bolts exhibited white rust in 24 hours and red rust after 168 hours. In contrast, the NANOMYTE® coating provided significant corrosion protection, even after 504 hours of SST. Typically, TC-5001-coated parts show no white rust even after 1000 hours and no red rust even after 1200 hours. SST can be used in conjunction with field testing and online life predictors for coatings on HDG, as prescribed by the American Galvanizers Association (AGA).



Uncoated zinc-plated bolts exhibit white rust after 24 hours and red rust after 168 hours of Salt Spray Testing (SST), while TC – 5001 coated bolts show significant corrosion protection even after 504 hours of SST.

[NANOMYTE® TC-5001](#) is part of NEI’s expanding portfolio of anti-corrosion coating systems, including pretreatments and topcoats that protect steel, aluminum and magnesium from corrosion. The coatings are economical, easy to use, and provide excellent corrosion resistance compared to state-of-the-art offerings. “Our thin, single component, clear coating for zinc-plated and HDG steel represents a significant advancement in the state-of-the-art that could eliminate the need for using primers and topcoats,” said Dr. Ganesh Skandan, CEO at NEI Corporation. “The market focused activities of NEI are a key to serving the needs of customers who require high-performance anticorrosion coatings. Our goal is to engage customers as partners in developing new corrosion-resistant coating products.”

The NANOMYTE® line of coatings provides an array of advanced protective surface treatments for metal, wood, and polymers. The coatings have tailored functionalities such as anti-corrosion, self-healing, scratch resistance, anti-ice, and easy-to-clean. In addition, NANOMYTE coatings are versatile and can be modified to introduce color and other features to meet performance and aesthetic requirements. NEI also offers a **Materials Analysis, Testing, & Characterization** service ([MATCH](#)) to help customers attain their materials performance objectives.

About NEI Corporation: NEI Corporation is an application-driven company that utilizes nanotechnology to develop and produce advanced materials. The company’s core competencies are in synthesizing nanoscale materials and prototyping products that incorporate the advanced materials. NEI offers an array of Advanced Protective Coatings for metal and polymer surfaces.

For more information, contact:

Ms. Krista Martin

NEI Corporation

(732) 868-3141

sales@neicorporation.com

###