



[Home](#)

Nanotechnology Extends the Life of Painted Surfaces

November 17, 2013

BRIGHTON, MI - Conventional paint systems including epoxies provide good corrosion resistance and initial surface hardness, but unfortunately fall short in long-term UV resistance and weathering. Two-component polyurethanes provide good UV resistance and weathering, but typically cost much more than epoxy or polyester topcoats. Unfortunately, conventional paint systems like topcoats and epoxies begin the oxidization process or “chalking” from weathering within one year from application. This surface-chalking phenomenon is actually degraded paint that resides on the surface from UV exposure and weathering. The original color typically exists beneath the underlying chalked surface.

Nano-Clear[®] Coatings developed by Nanovere Technologies provide a long-term alternate to repainting important surfaces including steel, aluminum, plastics and fiberglass. Nano-Clear Coatings restore original color, enhance and extend the life of highly oxidized paint surfaces by 10 years. They penetrate deep into the smallest pores within the oxidized paint then magnify the underlying color. It then makes transparent the chalked surface and hardens the surface. Nano-Clear also protects the substrate from UV degradation.

According to Nanovere Technologies Founder & Chief Technology Officer Thomas Choate, "Nanovere is pleased to introduce the world's first air-cure nanocoating to exceed automotive and aerospace technical specifications. Nano-Clear Coatings were developed to restore color, enhance and extend the life of important oxidized surfaces, while significantly reducing re-paint materials, reduce labor and energy costs." The application potential for Nano-Clear Coatings include restoring oxidized painted buildings, trains, anodized aluminum, epoxies, polyesters, topcoat paints and polyurethanes.