

# New Product Announcement: Thick-Film Novalac Epoxy

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Industrial coatings company Induron Protective Coatings recently launched its new thick-film, ceramic-filled novolac epoxy, meant for conditions found in treatment plants for concrete and carbon steel surfaces.

According to an email from the company, Novasafe can provide corrosion and erosion protection that treatment plant operators may need while working to rehabilitate structures.

“In the current regulatory and financial climate, water utilities are increasing their focus on the state of their currently in-service treatment plant assets, including aeration basins, clarifiers, grit chambers, chlorine contact basins etc. All these assets have an increasingly apparent need for linings and corrosion solutions that can be installed on site,” said William Seawell, Induron Director of Technical Services.

“In a period of increased influent volume, more chemically extreme influent, and increasing regulatory pressure, there is a rising need for immersion coating maintenance in treatment plants.”

Induron said that it has previously used thick-film ceramic epoxy technology to protect buried ductile iron pipe interiors, water tank interiors and water treatment plant interiors.



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The new Novasafe coating can reportedly be used with one less coat compared to traditional epoxies, also containing less film thickness than polyurethane or polyurea. This is made possible by the coating's resin and filler package.

"Novasafe is making that possible by lowering the barrier to entry with long pot-life, single-leg application and extended service life from a relatively thin film," Seawell said.

"Novasafe is distinctly NOT a 250 mil, plural-applied snap cure product optimized for shop throughput. It does all that those products do with 80 mils of film, and it is jaw-droppingly easy to apply in the field just as it is formulated to be."

The coating can reportedly stand continuous exposure to the entire pH range, a variety of strong mineral acids, all strong alkalis, high hydrogen sulfide concentrations often encountered in wastewater influent channels, and digestors, as well as the oxidative conditions often encountered in the treatment of that same wastewater in chlorine contact chambers.

Induron adds that ceramic linings in general, but specifically Novasafe, can provide a level of corrosion and erosion protection in immersion, both on concrete and steel.

Novasafe is reportedly a strong lining material that provides efficiency and dollar benefits to the applicator, and asset owner. The coating is reportedly easier to apply and is more robust in dry film than its competitors.

"While Novasafe is not appropriate for all services—no lining material is— there is a place in every treatment plant specification or treatment plant where Novasafe can assist in rehabilitating structures in immersion for continued long-term protection with a reduced maintenance load while providing savings in maintenance dollars and improving the look of the facility," said Davies Hood, Induron President.