

Testing Reveals Advenira's Eco-Friendly Corrosion Protection for Water Systems Outperforms Competition

Superiority based on corrosion and abrasion resistance data with full compliance to EPA requirements

SUNNYVALE, Calif. –(April 25, 2015)– [Advenira Enterprises, Inc.](#), a developer of Solution Derived Nanocomposite (SDN™) technology for environmentally friendly protective and optical coatings, announced outstanding results from recent testing of its ClearCorr and ClearCorrUV protective coatings for water distribution and storage systems. The corrosion and abrasion resistance data showed superiority over similar coatings in the market, specifically increased performance and excellent adhesion. The ANS61 water extraction test revealed no toxic metal ions or organic substances.

Advenira's products were tested on metal substrates as interior and exterior coatings to create a barrier preventing the access of water as the corrosion-mediating electrolyte to the pipe wall and dissolution and erosion of contaminants from the pipe wall to water.

Results showed ClearCorr as a superior internal coating of water distribution systems, without leaching toxic contaminants, and ClearCorrUV to best protect external walls, where it could be applied at higher thickness without risk of cracking.



Left: A 10cm steel pipe, half coated with Advenira's ClearCorr internally and externally, and subjected to accelerated corrosion.

In recent tests Advenira's ClearCorr-series coatings were deposited directly to the alkaline-cleaned metal surfaces, and both yielded clear and translucent coatings, with a visually appealing smooth, glossy surface.

Corrosion severely reduces the useful lifetime of water distribution pipes and mains, adversely affects the quality of potable water and greatly increases the cost to maintain the systems. Undesirable taste and red color of drinking water, a restricted flow of water and thus lower water pressure, and pipe failure are just some of the problems caused by corrosion in water systems.

Solutions tackling corrosion to date include selecting higher corrosion resistance materials, adding an internal liner and external wrapping, applying a coating or adding corrosion inhibitors to water.



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SDN™

SDN™ Technology allows for low-cost, high-throughput nanocomposite multifunctional coatings deposition on almost any substrate.

Advenira's toxic-free and toxic-repelling coatings used as the internal liner and external wrapping solution outperformed the biggest coatings companies on the market. The company's SDN™ technology not only focuses on increasing the lifetime of the products they coat, but on maintaining the highest level of eco-friendly materials and processes through serious limitations on VOC emissions.

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Additional Resources

- [Solution Derived Nanocomposite \(SDN™\) technology \(pg. 76-77\)](#)
- [Advenira Talks About Next Generation Nano Protective Coatings](#)
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About Advenira Enterprises, Inc.

Advenira Enterprises, Inc. is a California-based company located in the heart of Silicon Valley known for its novel Solution Derived Nanocomposite (SDN™) technology that allows for low-cost/high-throughput multifunctional coatings deposition on practically any type/shape/material substrate. The nanoscale protective and optical coatings are environmentally friendly. The company was founded as a means to address the world's increasing energy consumption and waste. Advenira commercializes its patented coatings technology in the glass and corrosion prevention markets – spanning the world's most important industries - with dramatic advantages over traditional techniques. For more information, please visit www.advenira.com.

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