Jacquelyn™ Coating

ELGIN WATER SOLUTIONS

Jacquelyn™ Coating (U.S. Patent #5,945,171) is a permanent metal coating to prevent biofouling. Jacquelyn™ is non-ablative and does not rely on copper leach. Because of this, Jacquelyn™ is a permanent solution. In biofouling-infested waters, the Jacquelyn™-coated object remains free of zebra mussel attachment.

Jacquelyn™ is safe for the environment. It has been tested for copper leach in freshwater and seawater. Additionally, an independent environmental laboratory tested Jacquelyn™ per NSF Protocol 61 and determined that copper leach was found to be very low (0.003 ppb) or non-detectable. For details on testing, contact Elgin Water Solutions.

Jacquelyn™ is applied in a tough, thin layer.

- Can be applied effectively with a total thickness of only 0.004 inch, allowing for its use on small slot intake screens without significantly diminishing the flow profile.
- High adhesion values, making it optimal for application on a variety of materials.

Jacquelyn™ is an effective, safe, solution for biofouling prevention at your site.

Unleashing Water's Potential
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Elgin Water Solutions will work with you to apply these solutions to your project.

Jacquelyn™ Coating Case Studies

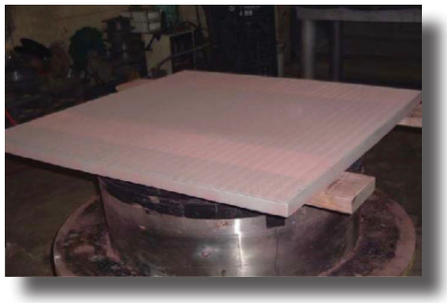
Coating for tee intake for offshore strainer

Biofouling was an issue at an island resort. Elgin worked with the resort owner to retrofit his existing intake system (an offshore strainer) with a new passive screen system.

Elgin worked with the site owner to develop a custom flow modifier within the system to ensure consistent flow, and to make the screens so they could be easily installed and removed. To address biofouling concerns Elgin coated the screens with Jacquelyn™ Coating.

Coating for intake pipe at power plant

A power plant was retrofitting its cooling water intake system to comply with EPA Regulation 316(b). Concerns arose because the water body was infested with zebra mussels. In addition, the flow rate through the system was going to be decreased to a flow rate optimal for zebra mussel growth. The facility needed to maintain ample cooling water to avoid costly thermal discharge penalties or a system outage. Jacquelyn™ Coating to address these concerns. Our ASME Certified fabricators built the pipe and applied Jacquelyn™ Coating to the ID of the pipe array. This application led to a significant reduction in capital cost over the use of exotic material such as 90-10 CuNi for the piping.



Coating for flat panel screens at hydro plant

A small hydroelectric plant in Montana was inundated with biofouling problems. To protect their system, they retrofitted their existing structure with an array of flat panels coated with Jacquelyn™ Coating. Elgin provided a solution that simply worked.

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