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## NEWS ALERT!!!   NEWS ALERT!!!   NEWS ALERT!!!

Cortec Makes the Push Toward Biological Corrosion Inhibitors!!!

At Cortec we take the term "environmentally friendly" seriously and are always willing to do whatever it takes to help improve our world. Cortec is proud of its continual effort to make products safer for people and the environment. One of the ways we are doing this is by evaluating the use of biological organisms as corrosion inhibitors which the US military has been interested in for some time now.

In a joint effort with research personnel at several universities, members of our lab have just concluded the first phase of a federally funded Small Business Technology Transfer (STTR) project evaluating the use of biological alternatives for corrosion inhibition. The goal of this project phase was to develop a field replaceable appliqué containing a biofilm (see the figure) capable of preventing corrosion of an aluminum alloy for a specified period of time under realistic environmental conditions outlined by the military. The long-term goal of this study is to replace chemical corrosion inhibitors being used on all types of military vehicles and equipment including aircraft carriers and helicopters exposed to salt corrosion. The results

obtained for the first phase have been submitted to the military for review. We are anxiously waiting for military approval to being the next phase of evaluation.
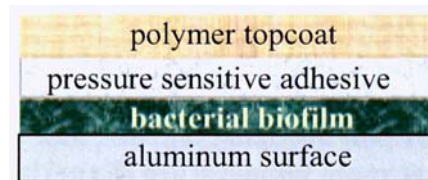
This technology will have obvious potential commercial use as well. For example, appliqués containing biological corrosion inhibitors could possibly be used to protect of the undercarriages of automobiles where decay becomes a serious problem. By combining this technology with other "smart" appliqué technologies, an even wider range of commercial applications can be created.

This effort, not only proves our dedication to corrosion control and the environment, but more importantly our investment in the future. Cortec strongly believes that innovation is the cornerstone of success.

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