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Successful Ship Trials of Selektope® Active Agent Create Change in the Paint Sector

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With the global average water temperature continues to rise, the weather continues to change and the market and many other circumstances, making anti-fouling [paint](#) to bear the enormous pressure, the field of paint is giving birth to a huge change. The recent 12-month bio-active agent Selektope test on the "Calypso" chemical / finished oil tanker has yielded encouraging results. Selektope's solution not only solves the problem of contamination, but also the static performance of the ship. Made a strong solution, while helping to reduce the ship carrying species invasion, making the ship more clean and more effective.



"Calypso" (built in 2010, 46,067 dwt) for the IMO II chemical / finished oil tanker completed its first five-year test at Singapore Sembcorp Marine.

The 15-year trial of I-TECH AB's R & D center in Gothenburg, Sweden, found the Selektope component, which is a milestone for the industry.

The discovery of the I-Tech research team is a very unique form of pharmacological action that prevents the barnacles from settling on the ship's shell by temporarily stimulating the swim

behavior of the barnacle larvae. This effect is temporary, and the larvae will return to normal function soon after exposure to the coating containing the Selektope ingredient. The use of a marine coating with only 0.1% Selektope ingredients provides a choice for paint suppliers to compare the performance of ships with traditional copper-based ships. It means that the use of less doses for the marine life is not fatal.

Due to the remarkable effect, this first-time coating technology has rapidly attracted the attention of paint suppliers in the early stages of its research and development. To date, coating suppliers have been experimenting with ship coating formulations containing Selektope ingredients at very fast pace to market as soon as possible.

In 2015, I-Tech's Selektope was recognized as a decisive sign in the global market and was certified by the European Union and was incorporated into the license from January 1, 2016. At the same time received the Japanese, Chinese and South Korean regulatory authorities certification.

For this technology, 2016 is a very meaningful year. Its first Selektope-based paint product for ocean-going vessels entered the market and achieved unexpected results during a 12-month ship test.

The performance data for the hydrodynamic analysis during the test were analyzed by the independent agency Propulsion Dynamics. After 12 months, the "Calypso" stain resistance increased by 3%, compared with the benchmark new ship's pollution resistance increased by 5% to 10%. The benchmark ship consists of a number of different ships coated with different coatings.

"Calypso" test number indicates increased resistance to 3% from the main [propeller](#), the remaining resistance from the hull itself. This is an encouraging result for changing the crop ingredient.

I-Tech Chairman Stefan Sedersten also reminded the success of the trial, although from the long-term performance of the test is encouraging, but still need to "Calypso" to confirm more worthy of the results, the future needs more Longer time for Selektope for further testing.