

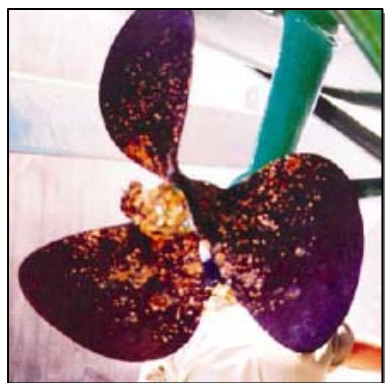


PERFORMANCE TECHNICAL REPORT

Subject: Marine Propeller S02 Non-stick Coating
Date: March 1998
Author: Paul Grace

Scope

A test was conducted on two marine propellers to provide a barrier against corrosion and inhibit the growth of marine life. The propellers were coated with HPC's H01 coating and then a top coat of HPC's S02 was applied. The propellers were fitted to the customer's boat permanently moored at a marina in the ocean.



After 12 months of full time salt-water immersion.



After a blast of water to remove loose debris.



After wiping the propeller off with a wet cloth, the coating shows no deterioration

Test Description

The propellers were cleaned of any previous contaminations by a thermal degrease process, followed by a grit blast process. They were then coated with HPC's H01 coating and cured. Post cure, the propellers were lightly blasted to etch the surface and then top coated with HPC's S02 non-stick solid dry film (SDF) coating. Following the final cure, the propellers were fitted to the boat and returned to service in the ocean for a period of twelve months. The boat was then removed for annual inspection and maintenance.

Results

Results show no signs of corrosion or pinholes. A small amount of marine growth was observed, less than usual, and was easily removed from the propellers with a blast of water and wet rag wipe. The boat was returned to the sea without any further work to the propellers for a second year.

Comments

The owner commented that with uncoated propellers there was a drop-off fuel economy due to marine growth causing parasitic drag, with coated propellers there was no reduction in fuel economy.

For more information please visit our website at www.hpcoatings.com or call our technical support department toll free at 1(800)456-4721.