

Tribological response of novel antifouling coatings

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Tribological response of a coating strongly depends on the operational conditions as well as the intrinsic properties of the environment (corrosiveness, T^a, pH, etc. of the media). One of the largest problems caused by fouling in marine devices is the increase of drag friction parameter. The antifouling solutions/coatings aim to avoid fouling attachments to reduce hulls fuel consumption due to low drag friction, to protect steel against marine corrosion and also to prevent wear produced by abrasion or erosion phenomena. In this paper a study about the response of different antifouling coating solutions is presented in terms of their drag friction response in a homemade testing device, as well as their corrosion and surface properties in aggressive marine environment.