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Evaluation of Barrier Properties of Organic Coatings By Electrochemical Permeation and Electrochemical Methods

Jéssica Verger Nandell[®], Cecilio Sadao Fugivara[®] and Assis Vicente Benedetti[®]

* Author Attitudions

Albistract

This study sims at investigating the transport through free-fitms of organic coestings derived from vegotable oils (cramble oil and castor oil) plus pre-polyment based on hexamisthylane discogranate and castor oil, which were used in our previous studies to protect aluminum alloy (AA1200) against correction in NACI solution [1]. The free-films were characterized by Raman, NMR, FTSR and AFM (noughness and bodure), and the permeability to NCI in a queeous solutions was investigated by electrochemical impedance spectroscopy (EIS) and open circuit potential (F_{DCR}) researcements as function of time. Different cooling formulations were tested to demonstrate the influence of their structure and chemical composition on electrolyte permeability. The good corrosion resistance of these coatings were to investigate the NCI permeability to assert in understanding the mechanism of compaign protection of the aluminum alloy surface. The measurements were done by using a setup similar to that employed by Armstrong et al. [2] in 0.1 mol L⁻¹ NCI aqueous solution, at 25 °C and atmospheric pressure. Raman, MMR, and FTSR spectra, and AFM images were taken before and after four months of immersion in the electrolyte and no significant differences between spectra or images were found. These results allowed concluding that no compositional and / or observed structural and topological changes have occurred in the free-film of organic coatings immersed in 0.1 mol L⁻¹ NCI aqueous solutions for four months at 25 °C and atmospheric pressures. The modulus of impedance remained between 1.2 to 1.7 GC cm² suggesting that the coating is not degraded by the solution and K² and CT ions permeability is practically insignificant.

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