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Epoxy Polymer Based Nano-Composite, Highly Anticorrosive Coatings for Corrosion Protection

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Abstract :The successful use of polymeric coatings for corrosion prevention or mitigation is often hindered by their inherently porous microstructure that fails to resist the ingress of detrimental species and/or by their vulnerability to damage by surface abrasion, wear, or scratches. This study discusses the utilization of nanotechnology to greatly enhance the properties of polymer-based coatings for anticorrosion applications, by modifying the microstructure of the coating bulk or endowing it with additional functionality. It also provides a review of technological advances in the use of nanotechnology to produce high-performance polymeric coatings with outstanding corrosion resistance and other relevant properties.

Keywords: corrosion-resistant, grapheme nano sheet, coating.

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