Record Nr. UNINA9910828352603321 **Titolo** Self-healing properties of new surface treatments [[electronic resource] /] / edited Lorenzo Fedrizzi, Wolfram Furbeth & Fatima Montemor Pubbl/distr/stampa Leeds, U.K.,: Maney Pub., 2011 **ISBN** 1-283-28668-8 9786613286680 1-61344-278-5 1-907975-23-3 Descrizione fisica 1 online resource (320 p.) Collana European Federation of Corrosion publications, . 1354-5116 ; ; no. 58 Altri autori (Persone) **FedrizziL FurbethWolfram** MontemorFatima Disciplina 620.11223 Soggetti Corrosion and anti-corrosives Stainless steel Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali "Published for the European Federation of Corrosion by Maney Publishing on behalf of the Institute of Materials, Minerals & Mining." Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Title page; Half title; Contents; European Federation of Corrosion (EFC) publications: Series introduction; Volumes in the EFC series; 1 Anticorrosive pigments in organic coatings; 2 Self-healing anticorrosion coatings; 3 A review on the use of nanostructured and functional organosilane coatings modified with corrosion inhibitors as environmentally friendly pre-treatments for metallic substrates; 4 Electrochemical study of cold-rolled steel substrates pre-treated with silane films modified with CeO2 and TiO2 nanoparticles 5 Pyrrole-based silane primer for corrosion protection of commercial aluminium alloys6 Sol-gel derived hybrid materials as functional coatings for metal surfaces; 7 Hybrid sol-gel/conducting polymer coatings: self-healing coatings for the corrosion protection of aerospace alloys; 8 Corrosion performance of nanoparticle-containing

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## Sommario/riassunto

This publication was motivated by the highly successful workshop on self-healing coatings held on 12 September 2007 at the European Federation of Corrosion's annual EUROCORR conference in Freiburg. It includes sixteen contributions, some of which were selected from the proceedings of the workshop (often in extended form) together with a number of specially invited articles and reviews.