

Title (en)
FLUORESCENT PROBE FOR THE DETECTION OF CORROSION

Title (de)
FLUORESZENZSONDE FÜR KORROSIONSNACHWEIS

Title (fr)
SONDE FLUORESCENTE POUR LA DÉTECTION DE CORROSION

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Application
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Abstract (en)
[origin: GB2425835A] A corrosion detection probe and method of corrosion detection at both a bare metal substrate and a coated metal substrate is provided. The probe, in the form of a solution or coating is capable of fluorescing in response to the generation of metal ions at the metal substrate resulting from corrosion processes. The detection solution comprises a binder configured to increase adhesion of the solution when applied to the substrate. Additionally, a method of applying the formulation to the substrate in the form of a spray, particularly an aerosol, is disclosed. Corrosion of the metal substrate is identified by irradiating the coated substrate with ultra violet light and observing resulting fluorescence. An example shows the metal substrate to be aluminium and the metal ion chelating agent to be 8-hydroxyquinoline-5-sulphonic acid hydrate.

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