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**CERAMIC MATERIALS AS CORROSION PROTECTIVE AGENTS FOR URETHANIC FILMS ON STEEL ABNT 1020 FOSPHOTATED.**

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The study of the behavior of electrochemical corrosion in ABNT 1020 carbon steel was carried out by the addition of nanometric zinc oxide loads in organic surface films. The performance and, the level reached in the anticorrosive protection, were evaluated in electrochemical tests. The concentrations of the zinc oxide particles present in the dry films. The efficiency of the organic coatings on carbon steel was observed. Technical parameters obtained from this work may be indicative for the use of zinc oxide in sectors of corrosion inhibiting paints. The Nyquist diagrams, obtained by electrochemical impedance spectroscopy of coatings containing different Aerosil contents showed a capacitive impedance, showing the same orders of magnitude when compared with the pure resin. However, coatings containing ZnO resulted in specimens with lower electrochemical activity, exhibiting a higher corrosion resistance in samples with 2.9% w and 5.8% w ZnO. The efficiency of the organic coatings on carbon steel was observed. Technical parameters obtained from this work may be indicative for the use of zinc oxide and vermiculite type processed in sectors of corrosion inhibiting paints.