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Surface Coating: An Overview of Research Work

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Abstract

Surface coating, any mixture of film-forming materials plus pigments, solvents, and other additives, which, when applied to a surface and cured or dried, yields a thin film that is functional and often decorative. Surface coating is an economic method for the production of materials, tools and machine parts that require the desired surface properties such as corrosion, erosion and wear resistance. Individuals and industry tend to focus on the wearing surface that has the greatest impact on their own economic situation. Research is going on over years to reduce the corrosion, erosion and wear either in the form of using a new corrosion, erosion and wear resistant material or by improving these properties in the existing material by using surface coating methods. In this paper an attempt has been made to review the work of some researchers who conducted the experimental studies on different surface coatings, which are employed on the substrate surface of material by different methods. The various coating methods used and their advantages have been discussed.

Keywords:

Wear, Resistance, Surface coatings, Thermal Spraying, Abrasive. Etc

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