

Development of combined technologies and multifunctional equipment for application of polymer powder coatings

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Abstract

© 2016 Research India Publications. New processes and a complex of specialized equipment, which allow applying polymer powder coatings onto the surface of materials of various nature in stationary and non-stationary conditions by using combined methods, were developed. Mathematical model of the processes of heating and melting of particles of powder compositions, which provides a perfect homogeneity of solid surfaces with guaranteed quality, was proposed. Operating and design parameters of technological processes and equipment were optimized.

Keywords

Coatings, Equipment, Operating and design parameters, Optimization, Polymer powder compositions, Processes, Simulation