

Formulation and Manufacturing Process of Alkyd Resin, Amino Resin, Phenolic Resin, Polyurethane Epoxy Resin, Silicone Resin, Acrylic Resin, Paints, Varnishes, Pigments & Additives (Surface Coating Products with Formulae)

Description:

In polymer chemistry and materials science, resin is a "solid or highly viscous substance," which are typically convertible into polymers. Such viscous substances can be plant-derived or synthetic in origin. They are often mixtures of organic compounds. Many plants, particularly woody plants produce resin in response to injury. The resin acts as a bandage protecting the plant from invading insects and pathogens.

Surface coating is the application of decorative or protective materials in liquid or powder form to substrates. These coatings normally include general solvent type paints, varnishes, lacquers, and water thinned paints. Surface coating involves different types of products for example paints, varnishes, resins, polyesters, pigments etc. Alkyd resin is complex oil modified polyester that serves as the film coating agent in some paints and clear coatings. Varnish is one of the important parts of surface coating industry. They are used as clear, transparent coatings or as vehicles for a wide variety of pigmented, opaque coatings for architectural and industrial purposes.

Keywords: Formulation of resins, Manufacturing Process of resins, Alkyd Resin, Amino Resin, Phenolic Resin, Polyurethane Epoxy Resin, Silicone Resin, Acrylic Resin, Paints, Varnishes, Pigments, Additives, Surface Coating Products, polymers, emulsion polymerization theory, emulsion polymers, water reducible resins, water soluble polymers, solvents, inorganic pigments, titanium dioxide pigments, organic pigments, paint driers and architectural paints

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