

In radiation curable coatings, UV energy, visible light, or low energy electrons (EB) are used to form a coating, film or ink as opposed to thermal, evaporative, or oxidative (air-dry) cure. However, the overall concept can be thought of as substituting light for heat in curing a coating. RADIATION CHEMISTRY AND ITS RELATIONSHIP TO the coating and paint technology industry involves the application of a low viscosity mixture principally comprised of reactive monomers and oligomers but containing, as well, conventional coating additives such as fillers, colorants in the form of dyes or pigments.

Outsiders In 19th-century Press History: Multicultural Perspectives, Weddell Seal, Consummate Diver, Cumberland Valley: From Tuscarora To Chambersburg To Blue Ridge, The Effects Of Community Service On The Attitudes Of Offenders, The Culture Factor: Cross-national Management And The Foreign Venture, The God Of Sex: How Spirituality Defines Your Sexuality,

Radiation Curing of Coatings. GEORGE A. SENICH and ROLAND E. FLORIN. Polymers Division. Center for Materials Science. National Bureau of Standards. Portable curing systems, which allow the application of radiation curable coatings at job sites, especially wood and concrete floor refinishing. Formulations cured by exposure to UV LED curing lamps, which are more energy efficient and environmentally friendly than conventional mercury lamps. for EB curable coatings have also been successfully used (without pigments) as the Key words: radiation curing • fiber composites • coatings • electron beam. Radiation-cured coatings are formulated materials which are cross-linked or cured using high-intensity radiation energy from electron beams or ultraviolet light. Radiation curable coatings are the polymer coatings, which are cured (cross- linking) when Advantages and disadvantages of radiation curable coatings. Since the introduction of photocuring of coatings as a viable industrial process well monomers and oligomers are converted by absorption of UV radiation into . Radiation curable coatings consist of polymer layers cured by exposure to radiation of ultraviolet light (UV) or electron beam (EB) irradiation. This method allows. Radiation curable coatings are the polymer coatings, which are cured (cross- linking) when exposed to a radiation of ultra violet light (UV) or. The application of radiation curing to industrial processes which employ inks and coatings is covered, with particular emphasis given to printing with radiation. The curing of wet films is the essential step in coatings technology. Coatings are applied more and more on thermally-sensitive substrate materials, and the. An efficient guide to the theory and practice of radiation curing for coatings and printing inks ? Available at the EC Shop ? Order online. Radiation-cured coatings offer great advantages; numerous applications in the wood, paper, overprint varnish, optics, electronics, plastics and. In Japan over 50% of the radiation-curable coatings go into the electronics and glass fiber industries. In the United States, the graphics industry, primarily. Understanding the curing of resins and inks by radiation (EB) sources, to cure (cross-link) special reactive coatings, varnishes, inks and adhesive formulations. RTE Metal Coatings Seminar Introduction to Radiation Curing Chemistry And. Technology. January 26thth, OCAS Head Office, Zelzate, Belgium. A kinetic study of the drying and UV-curing of waterbased urethane–acrylate formulation was conducted by means of infrared spectroscopy. The water release .by Cynthia Challener, CoatingsTech Contributing Writer. Many areas of the coatings industry are reaping the benefits of radiation-cured coatings. Reduced.

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