



Paper Coatings

A.R. Sinclair, TAPPI



Paper Coatings:

The Structure of Paper Coatings P. Lepoutre, 1989 *Paper Coatings* Donald T. Harper, 1976 **Oil- and Water-resistant Paper Coatings Using Low-cost Biodegradable Polymer Blends for Packaging Applications** Aditya Nair, 2021 The growing environmental and health concerns over fluorochemicals coated paper and single use plastics plastic coated paper have led to a great interest in biodegradable and repulpable alternatives to obtain water and oil repellent paper substrates The work reported herein aims at addressing these concerns by developing a fluorine free thermoplastic free and cost effective water and grease resistant paper coating using biodegradable polymers like polyvinyl alcohol PVOH and starch blended with chitosan graft polydimethylsiloxane chitosan g PDMS copolymer The hydrophobic and oleophobic performance of the coated paper with PVOH and chitosan g PDMS blend yielded good water resistance Cobb60 value 20 2 4 g m² and a moderate oil resistance 7 12 kit rating Superior water and grease resistance were achieved with starch and chitosan g PDMS blend as the coating material where the Cobb60 values and kit ratings were 13 0 9 g m² and 12 12 respectively The repulpability of the coated papers is also demonstrated in this study by washing the coating materials from the paper and repulping the pulp This novel inexpensive water and grease resistant environmentally friendly coating offers promising candidacy for commercial use in a myriad of applications in the packaging sector *Handbook of Green Chemicals* Michael Ash, 2004 More than 7000 trade name products and more than 2500 generic chemicals that can be used in formulations to meet environmental concerns and government regulations This reference is designed to serve as an essential tool in the strategic decision making process of chemical selection when focusing on human and environmental safety factors Industries Covered Adhesives Refrigerants Water Treatment Plastics Rubber Surfactants Paints Coatings Food Pharmaceuticals Cosmetics Petroleum Processing Metal Treatment Textiles The chemicals and materials included are used in every aspect of the chemical industry The reference is organized so that the reader can access the information based on the trade name chemical components functions and application areas green attributes manufacturer CAS number and EINECS ELINCS number It contains a unique cross reference that groups the trade name chemicals by one or more of these green chemical attributes Biodegradable Environmentally Safe Environmentally Friendly Halogen Free HAP s Free Low Global Warming Low Ozone Depleting Non ozone Depleting Low Vapor Pressure Noncarcinogenic Non CFC Non HCFC Nonhazardous Nontoxic Recyclable SARA Nonreportable SNAP Significant New Alternative Policy Compliant VOC Compliant Low VOC VOC Free **Coatings Materials and Surface Coatings** Arthur A. Tracton, 2006-11-07 Drawing from the third edition of The Coatings Technology Handbook this text provides a detailed analysis of the raw materials used in the coatings adhesives paints and inks industries Coatings Materials and Surface Coatings contains chapters covering the latest polymers carbon resins and high temperature materials used for coatings adhesiv **Synthetic Binders in Paper Coatings. A Project of the Coating Binders Committee** A.R. Sinclair, TAPPI, 1975 The Handbook of Paper-Based Sensors and Devices

Ghenadii Korotcenkov,2025-07-25 This collection on materials and technologies is the first of a three volume handbook on all aspects of paper based devices from synthesis of nanocellulose and paper fabrication to discussion of features of fabrication of various flexible sensors and electronic devices on paper substrates Subsequent volumes address sensors and bio and environment engineering electronics and energy technologies The books also present a comprehensive and detailed analysis of all aspects of applications of these sensors and devices in environment monitoring biomedicine healthcare agriculture the food industry energy electronics optoelectronics and other domains Paper based bioengineering and environment engineering are also discussed in detail in these books The books enable the reader to understand the present status of paper based sensors and devices and the role of paper in the development of new generation of sensors and electronic devices for various purposes with enhanced efficiency World renowned experts with extensive expertise in the development of nanocellulose based technology and paper based sensors and electronic devices comprise the contributors to this collection The Handbook of Paper Based Sensors and Devices is an authoritative reference for materials scientists biologists physicians and biochemical engineers as well as for chemical biomedical environmental electronics agriculture engineers and the food biotechnologists working in R Considers in detail the synthesis modification of nanocellulose intended for use in various fields Analyzes the specifics of manufacturing paper based flexible and wearable sensors and systems for various applications

Polymeric Dispersions: Principles and Applications J.M. Asua,2012-12-06 A comprehensive and up to date survey of the science and technology of polymeric dispersions The book discusses the kinetics and mechanisms of polymerization in dispersed media examines the processes controlling particle morphology presents both off line and on line methods for the characterization of polymer colloids considers reactor engineering and control and covers a wide variety of applications such as latex paint formulations encapsulation of inorganic particles reactive latexes adhesives paper coating and biomedical and pharmaceutical applications Audience A valuable resource for scientists and engineers academic and industrial who are involved in the manufacture or application of polymeric dispersions *Paper Industry* ,1957 **Paper Coatings Based on Polymers, 1971** Maurice William Ranney,1971 Thermoplastic-free Paper Coatings as Sustainable Alternatives for Single-use Plastic Packaging Dhvani Kansal,2021 Plastics are one of the most widely used classes of synthetic products due to their lightweight nature affordability and versatility However commonly used plastics are non biodegradable and have low recycling rates that have created environmental issues Paper is considered to be an excellent alternative to plastics in certain packaging applications due to its biodegradability low cost and good mechanical properties However the porous texture and polar chemistry of paper make them unfit for containing liquid products and thus limit its applicability This problem is circumvented by applying plastic and per and polyfluoroalkyl substances PFAS coatings onto paper However plastic is non biodegradable and PFAS is harmful and their accumulation in ecosystems poses threats to human health and the environment This thesis work is aimed to address the current non sustainable challenges associated with coated paper Three

approaches were used to develop environmentally friendly and sustainable coatings. The aim of Approach 1 is to develop chitosan and zein based dual layer coatings as novel paper coating materials because both chitosan and zein are biobased, biodegradable and food safe materials. Kraft paper was coated with an oil resistant chitosan solution as the first layer and subsequently by a hydrophobic zein solution as the top layer. The resultant chitosan/zein coated paper showed significant water resistance (Cobb 60 value of 4.88 g/m²) and oil repellency (kit rating of 12/12). Scanning electron microscopy (SEM) analysis showed that the pores were masked upon coating with chitosan and zein dual layer coating, that led to the improvement in water and oil resistance. The desirable mechanical properties of the coated paper were retained after the coating treatment. In addition, the pulp was recovered from the chitosan/zein coated paper to validate the recyclability of this novel approach (percentage of recovery and properties of recoverable materials). Approach 2 is aimed to replace chitosan with a less expensive material such as starch in the dual layer paper coating. Again, starch is widely available and due to the similar chemical structure with that of chitosan, it shows the same oil resistance as chitosan. Accordingly, starch and zein dual layer coatings were applied onto a Kraft paper and yielded a low Cobb 60 value of 4.81 g/m². In addition, the coated paper exhibited excellent grease resistance with a kit rating of 12/12. SEM characterization confirmed that the dual layer coating filled the pores of the paper substrate. The mechanical properties as well as the thermal stability of the paper remained essentially unchanged after the coating treatments. Approach 3 is focused on the use of single layer coating to obtain water and oil resistant coatings. Here, sunflower oils were first modified and then grafted onto chitosan using industry relevant epoxidation chemistry. The obtained chitosan graft oil was coated onto paper for the water and oil resistance properties. Cobb 60 and kit rating values were determined to be 8.00 g/m² and 7.66 respectively for the optimal formulations. Considering the excellent sustainability (i.e. ability to be reused without depletion of natural resources) of our developed paper (e.g. thermoplastic free, PFAS free, repulpable and biodegradable), this work offers a multitude of packaging applications with invaluable benefits for human, animal, health, the environment as well as industry.

Production of Materials from Sustainable Biomass Resources Zhen Fang, Richard L. Smith, Jr, Xiao-Fei Tian, 2019-04-04. This book presents a collection of studies on state of art techniques developed specifically for lignocellulose component derivation and for the production of functional materials (composite polymers, carbonaceous biocatalysts and pellets) from lignocellulosic biomass with an emphasis on using sustainable chemistry and engineering to develop innovative materials and fuels for practical application. Technological strategies for the physical processing or biological conversion of biomass for material production are also presented. All chapters were contributed by respected experts in the field from around the globe, providing a broad range of perspectives on cutting edge applications. The book offers an ideal reference guide for academic researchers and industrial engineers in the fields of natural renewable materials, biorefinery of lignocellulose, biofuels and environmental engineering. It can also be used as a comprehensive reference source for university students in chemical engineering, material science and

environmental engineering **Handbook of Paper and Board** Herbert Holik, 2013-03-25 Papermaking is a fascinating art and technology The second edition of this successful 2 volume handbook provides a comprehensive view on the technical economic ecologic and social background of paper and board It has been updated revised and largely extended in depth and width including the further use of paper and board in converting and printing A wide knowledge basis is a prerequisite in evaluating and optimizing the whole process chain to ensure efficient paper and board production The same is true in their application and end use The book covers a wide range of topics Raw materials required for paper and board manufacturing such as fibers chemical additives and fillers Processes and machinery applied to prepare the stock and to produce the various paper and board grades including automation and trouble shooting Paper converting and printing processes book preservation The different paper and board grades as well as testing and analysing fiber suspensions paper and board products and converted or printed matters Environmental and energy factors as well as safety aspects The handbook will provide professionals in the field e g papermakers as well as converters and printers laymen students politicians and other interested people with the most up to date and comprehensive information on the state of the art techniques and aspects involved in paper making converting and printing **Liquid Film Coating** P.M. Schweizer, S.F. Kistler, 2012-12-06 This multi authored volume provides a comprehensive and in depth account of the highly interdisciplinary science and technology of liquid film coating The book covers fundamental principles from a wide range of scientific disciplines including fluid mechanics and transport phenomena capillary hydrodynamics surface and colloid science The authors all acknowledged experts in their fields represent a balance between industrial and academic points of view Throughout the text many case studies illustrate how scientific principles together with advanced experimental and theoretical methods are applied to develop and optimize manufacturing processes of ever increasing sophistication and efficiency In the first part of the book the authors systematically recount the underlying physical principles and important material properties The second part of the book gives a comprehensive overview of the most advanced experimental mathematical and computational methods available today to investigate coating processes The third part provides an overview and critical literature review for all major classes of liquid film coating processes of industrial importance **Maleic Anhydride** B. Trivedi, 2013-11-11 **Paper Coating Additives** Technical Association of the Pulp and Paper Industry. Coating Committee, 1963 *The Paper Industry*, 1929 *Coating Component Migration In Paper Coatings* Emilia Purington, 2018 **The Art of Lithography** Henry John Rhodes, 1914 The work is the result of long experience both in the workshop and the technical classroom and the author has sought to make it comprehensive thoroughly up to date and above all practical preface Physical Chemistry of Pigments in Paper Coating Technical Association of the Pulp and Paper Industry. Coating Pigments Committee, 1977

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