

Handbook Of Coating Additives

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Industry. Coating Committee Task Force. Coating Additives Section B. Xu L.J. Calbo (ed) D. R. Karsa Burak Aksoy Wernfried Heilein Artur Goldschmidt

this volume compiles a wealth of information on the composition properties utilization and performance of major classes of additives while alerting formulators to potentially damaging interactions and challenges in the selection and testing of these materials completely revised and updated the handbook of coatings additives second edition offers practical knowledge on the industry s most widely used compounds to accelerate and refine laboratory procedures meet regulatory standards and avoid hazards in the formulation of coatings additives it is an ideal guide to making informed decisions in the development and design of effective coatings systems

no doubt a perfect coating has to look brilliant but other properties of coatings are also most important coatings have to be durable tough and easily applicable additives are the key to success in achieving these characteristics even though the amounts used in coating formulations are small it is not trivial at all to select the best additives in practice many series of tests are often necessary and the results do not explain why a certain additive improves the quality of a coating and another one impairs the coating this book is dedicated to developers and applicants of coatings working in research or production and it is aimed at providing a manual for their daily work it will answer the following questions how do the most important groups of additives act which effects can be achieved by their addition scientific theories are linked to practical applications emphasis is put on the optical aspects that are most important for the applications in practice this book is a milestone in quality assurance in the complete field of coatings

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this book comprehensively discusses the mode of action possible applications and potential secondary effects of the most important coating additives in a single volume presented in a textbook style it considers practical needs rapidly furnishing the reader with a solid foundation in these critical yet complex constituents of all paint formulas

additives in water borne coatings covers both current technology and the future prognosis for the key additives used in water borne coatings today it brings together international expertise to provide a comprehensive practical overview of the field its direction and selection of key additives currently employed for in depth treatment of their use behaviour and scope by expert practitioners in those additives this timely publication includes two excellent plenary chapters reviewing the developments together with the regulatory and legislative scene in the overall field it also contains seven in depth chapters devoted to key additive types specifically rheology modifiers matting agents surface active agents dispersants defoamers and biocides in addition the book provides Â a systematic approach to additive selection additive rules for the development of a coatingÂ a good understanding of the biocidal degradation effects and the key biocide strengths and weaknesses in addressing themÂ the reader with a thorough understanding of silica based matting agents and their mode of actionÂ useful overviews of water borne dispersants silicone surface active agents and cellulosic and associative thickener rheology modifiersthis key book amalgamates some of the latest developments in this field and provides an authoritative source of information for the research community and those in the industry as well as providing invaluable information to graduate and postgraduate students

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waterborne coatings are a growing market segment especially in the us favored for their lack of toxic solvents and fumes and the more recent waterborne products now closely emulate the properties and performance of their solvent based equivalents the use of waterbornes can reduce costs involved in removing noxious gases from the working environment and protecting staff from their effect equally they can eliminate the release of toxic gases in the locations where they are used and the release of toxic

substances into the environment via landfill disposal etc there are special requirements relating to the use of additives in waterbornes which are set out in this book issues such as adhesion are covered in detail the author team has provided a state of the art survey covering chemistry functionality binder technologies and coating types for each of the major additive types the following key areas are covered de aeration wetting rheology control adhesion foam control leveling biocidal control light stabilization hydrophobic control waxes

updated with 18 years worth of new technology standards and developments this handbook addresses coating materials and technology safety issues and quality management it comes complete with standard tables general classification figures definitions and an extensive keyword index

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