Record Nr. UNINA9910831083003321 Titolo Additives for coatings / / edited by Johan Bieleman Weinheim, [Germany]:,: Wiley-VCH,, 2000 Pubbl/distr/stampa ©2000 **ISBN** 1-281-84247-8 9786611842475 3-527-61330-7 3-527-61331-5 Descrizione fisica 1 online resource (393 p.) Disciplina 667.9 668.1 Soggetti Coatings - Additives Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references at the end of each chapters and index. Nota di contenuto Additives for Coatings; Contents; 1 Introduction; 1.1 Additives in Coating Materials; 1.2 Definitions; 1.3 Classification According to Function: 1.4 Quantities Used: 1.5 Economic Significance of Coating Additives; References; 2 Basics; 2.1 Introduction; 2.2 Interactions; 2.3 Chemical Composition; 2.4 Effectiveness of Additives; 2.5 Applications; References: 3 Thickeners: 3.0 Basics: 3.0.1 Introduction: 3.0.2 Rheology and Viscosity; 3.0.3 Viscosity Measurement; 3.1 Inorganic Thickeners; 3.1.1 Introduction; 3.1.2 Organoclays; 3.1.3 Production of the Organoclays; 3.1.4 Rheology and Organoclays 3.1.5 Influence of Organoclays on Various Coating Properties 3.1.5.1 Sedimentation; 3.1.5.2 Sagging; 3.1.5.3 Flow and Levelling; 3.1.6 Incorporation Procedures; 3.1.6.1 Powder Method; 3.1.6.2 Paste Method; 3.1.6.3 Easily Dispersable Organoclays; 3.1.7 Trade Products; 3.2 Organic Thickeners; 3.2.0 Introduction; 3.2.0.1 Organic Thickeners for Water-Borne Paints; 3.2.0.2 Thickeners for Solvent-Based Paints; 3.2.1 Cellulose Derivatives: 3.2.1.1 The Chemistry of Cellulose Derivatives; 3.2.1.2 The Addition of Cellulose Ethers to Paints; 3.2.1.3

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Sommario/riassunto

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 applicant