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| Nota di contenuto | Failure Analysis of Paints and Coatings, Revised Edition; Contents; Preface to the Revised Edition; Preface to the First Edition; Acknowledgements; 1: General Principles of Coating Formulation; 1.1 INTRODUCTION; 1.2 BINDERS; 1.3 PIGMENTS; 1.4 SOLVENTS; 1.5 ADDITIVES; 1.6 FORMULATION CONCEPTS: PIGMENT-TO-BINDER RATIO; 1.7 FORMULATION CONCEPTS: PIGMENT-VOLUME CONCENTRATION; 1.8 FORMULATION CONCEPTS: DENSITY, WEIGHT SOLIDS AND VOLUME SOLIDS; REFERENCES; 2: Why Coatings Work and Why They Fail; 2.1 WHY COATINGS WORK; 2.1.1 Adhesion; 2.1.2 Wetting; 2.1.3 Surface Preparation; 2.1.4 Cohesive Strength 2.1.5 Permeability2.2 WHY COATINGS FAIL; 2.2.1 Mechanical Stress; 2.2.2 Internal Stress; 2.2.3 Chemical Attack; 2.2.4 Weathering Stress; 2.2.5 Osmotic Blistering; 2.2.6 Electroendosmotic Blistering; REFERENCES; 3: Pigments; 3.1 INORGANIC PIGMENTS; 3.1.1 Inorganic Colour Pigments - White; 3.1.2 Inorganic Colour Pigments - Yellow; 3.1.3 Inorganic Colour Pigments - Orange; 3.1.4 Inorganic Colour |

Pigments - Red; 3.1.5 Inorganic Colour Pigments - Blue; 3.1.6 Inorganic Colour Pigments - Green; 3.2 EXTENDER PIGMENTS; 3.2.1 Silica/Silicates; 3.2.2 Calcium Carbonate; 3.2.3 Barytes 3.3 CORROSION-RESISTANT PIGMENTS 3.4 ORGANIC PIGMENTS; 3.4.1 Organic Red Pigments; 3.4.2 Organic Yellow Pigments; 3.4.3 Organic Blue Pigments; 3.4.4 Organic Green Pigments; REFERENCES; 4: Additives and Solvents; 4.1 ADDITIVES; 4.1.1 Anti-settling Agents; 4.1.2 Viscosity Modifiers; 4.1.3 Surfactants and Emulsifying Agents; 4.1.4 De-foaming and Anti-foaming Agents; 4.1.5 Driers; 4.1.6 Plasticizers; 4.1.7 Ultraviolet Stabilizers; 4.1.8 Anti-skinning Agents; 4.1.9 Biocides; 4.1.10 Flow-Modifying Agents; 4.2 SOLVENTS; REFERENCES; 5: Coating Types and Common Failure Modes 5.1 NATURAL RESINS AND OILS 5.1.1 Natural Resins; 5.1.2 Oils; 5.2 ALKYDS AND EPOXY ESTERS; 5.2.1 Alkyds; 5.2.2 Epoxy Esters; 5.3 EPOXIES; 5.3.1 Amine and Amide Curing Agents for Epoxy Resins; 5.3.2 Epoxy Failure Modes; 5.4 MODIFIED EPOXIES; 5.4.1 Acrylic Epoxies; 5.4.2 Coal Tar Epoxies; 5.4.3 Epoxy Phenolics; 5.5 PHENOLICS; 5.5.1 Resole Phenolics; 5.5.2 Novolac Phenolics; 5.5.3 Phenolic Failure Modes; 5.6 AMINO RESINS; 5.7 ACRYLICS; 5.7.1 Solution Acrylics; 5.7.2 Acrylic Latex Coatings; 5.7.3 Thermoset Acrylics; 5.8 POLYESTERS; 5.8.1 Saturated Polyesters; 5.8.2 Unsaturated Polyesters 5.9 POLYURETHANES 5.9.1 Two-Component Polyisocyanate/Polyol Coatings; 5.9.2 Urealkyds; 5.9.3 Moisture-Cured Polyurethanes; 5.9.4 Polyurethane Lacquers and Dispersions; 5.9.5 Two-Component Water-Borne Polyurethanes; 5.10 VINYLs; 5.10.1 Solution Vinyls; 5.10.2 Plastisols and Organosols; 5.10.3 Vinyl Fluorides; 5.10.4 Poly(vinyl butyral); 5.10.5 Vinyl Latexes; 5.11 BITUMINOUS COATINGS; 5.12 INORGANIC AND SILICONE-MODIFIED COATINGS; 5.12.1 Silicone Coatings; 5.12.2 Silicate Coatings; 5.12.3 Polysiloxane Coatings; 5.13 POLYUREAS; 5.13.1 Polyaspartic Polyurea Coatings; 5.14 POWDER COATINGS REFERENCES

Sommario/riassunto

Entirely devoted to the failure analysis of coatings and paints - an "excellent reference to a select market". Latest edition contains new material on surface preparation, transfer of salt to steel from contaminated abrasive, effect of peak density on coating performance, on galvanizing, silane-modified coatings, polyurea coatings, polyaspartics, and powder coatings and on dry spray. Balances scientific background and practical advice, giving both the theory and applications in a slim, easily readable form. Includes case studies of laboratory tests. Written by

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