



Paper Coating Additives **Edited by Robert J. Kane**

A Project of the Coating Additives Committee of the Coating and Graphic Arts Division

Edited by A. A. Adams, 1991

1995. 142 pp., 7" x 10" hard cover
Item Number: 0102B060

ISBN: 0898520614

This multi-authored work contains in-depth coverage of nearly all major additives used in paper coating. Considered the definitive text on paper coating additives, the TAPPI Coating Additives Monograph of 1978 has now been updated to include the latest in coating additives technology. Each chapter, written by a specialist in his/her field, reviews chemistry, applications, and end use of each class of coating additive.

An excellent reference source, this text reviews past coating industry technology, and incorporates current knowledge in the field. It will be useful to anyone involved in the paper coating industry, including technical, sales, marketing, production, and R & D personnel. Libraries and Universities with paper programs will also benefit from this unique text. This book is a one-stop resource for current technology in the additive industry!

Table of Contents

Preface

List of Contributors

Chapter 1 Paper Coating Additives - General Description

Chapter 2 Some Principles of Coating Formulation

Chapter 3 Foam Control

Chapter 4 Water Retention and Rheology Modifiers

Chapter 5 Colorants

Chapter 6 Dispersants

Chapter 7 Lubricants

Chapter 8 Insolubilizers

Chapter 9 Preservatives

Subject Index

acid dyes	alkalies	anionic polymer	azo pigments
additives	aluminum trihydrate	dispersants	
additives selection	amino resins	anthraquinone	basic dyes
additive types	ammonium	pigments	biocide
adsorption	zirconium	antidusting	blade coating
adsorptivity testing	carbonate (AZC)	antifoam	blade instability
alkali silicates	anatase	associative	bleedfastness
alkali-swellaable	anionic direct dyes	thickener	blocked glyoxal
blocked glyoxal	resins	brightness	brilliance

Book

Paper Coating Additives

Edited by Robert J. Kane

- cake formation
- calcium carbonate
- calcium stearate
- capillary
- carboxymethylcellulose (CMC)
- casein
- cationic direct dyes
- clay
- co-binder
- coat weight
- coating color
- coating flows
- coating holdout
- coating rheology
- color
- color matching
- color strength
- colorants
- colored pigments
- computer color matching
- crosslinkers
- crosslinking
- defoamer
- dehydration rate
- dialdehyde starch
- diglycerides
- direct dyes
- dispersant demand curve
- dispersants
- dot definition
- dry pick
- dry pick improvement
- dry rub
- dry rub improvement
- electrolyte effects on dispersant performance
- entrained air
- flocculation
- fluorescent whitening agents (FWA)
- foam control
- formaldehyde
- formulating with dispersants
- functions of additives
- glyoxal
- glyoxal-based granularity
- hydroxyethylcellulose (HEC)
- illumination
- ingredients
- inorganic colored pigments
- insolubilizers
- kaolin
- L, a, b system
- lakes
- light source
- lightfastness
- liquid phase
- lubricants
- metal salts
- metal soap
- lubricant
- metamerism
- microbiological
- modified glyoxal resins
- molecular weight
- molecular weight effects of anionic polymers
- mottling
- nonionic polymer dispersants
- optical modifiers
- organic colored pigments
- paper coating additives
- paper coating insolubilizers
- paper coatings
- periodic review
- pH effects on dispersants
- phosphate-reversion
- phthalocyanine pigments
- piling
- polyacrylate
- polyelectrolyte
- polyelectrolyte effect
- polyethylene
- polyphosphates
- polyvinyl alcohol
- preservatives
- pressure migration
- print clarity
- printing process
- protein
- pseudoplastic
- reactive Starches
- reflectance curves
- reversion
- rheology
- runnability
- rutile
- scuff resistance
- shade
- show-through
- SIWA
- slip
- sodium alginate
- sodium polyacrylates
- sodium salt
- soy-lecithin
- spoilage
- starch
- strength
- supercalendering
- test method
- thickener
- thioindigo pigments
- titanium dioxide
- ultraviolet
- vacuum-driven water migration
- water loss
- water loss mechanisms
- water resistance
- water retention
- water retention mechanisms
- water-soluble dyes
- water-soluble polymer
- wax emulsions
- wet pick improvement
- wet rub improvement
- wet-pick
- wet-rub
- zirconium