



Failure Analysis of Paints and Coatings

By Dwight G. Weldon

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Failure Analysis of Paints and Coatings By Dwight G. Weldon

- 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 an author with over 25 years of experience in the paint and coatings industry.

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Editorial Review

Review

"This publication is obviously unique in that it covers many...areas and provides answers to frequently asked questions..." (SAMPE Journal, November/December 2001)

From the Back Cover

Failure Analysis of Paints and Coatings is intended to provide the reader with an understanding of how to investigate, and solve, the premature failures of industrial coatings. The cracking, peeling, and blistering of coatings can result in widespread damage to the substrates which they are intended to protect, and can result in serious financial consequences. A sound knowledge of coatings chemistry, coupled with a firm understanding of the many field and laboratory techniques available for analyzing such problems, will aid the investigator in solving such failures.

Beginning with a basic review of coatings technology and the chemistry of commonly encountered coatings types, this book:

- looks at both the field and laboratory practices leading to the elucidation of failure mechanisms
- gives both theory and applications
- discusses both the advantages and limitations of various analytical techniques
- discusses the thought process involved in solving coating failures
- includes step by step examples of case studies

Written by an analytical chemist and coatings consultant with eighteen years of experience solving coatings problems for a wide range of industries, this title will be essential reading for coatings chemists, corrosion engineers, paint technicians, and consultants in the paints and coatings industry.

Praise for this book includes:

"...an admirable job of filling a serious gap in the coatings literature...this excellent volume delivers more than is promised in the title." —Clifford Schoff, PPG Industries, Inc., Allison Park, PA, USA

"It is well deserving of a place in the library of all paint chemists and formulators." —Clive H. Hare, Coating System Design, Inc., Lakeville, MA, USA

Users Review

From reader reviews:

Bernadine Williams:

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Kevin Miller:

Reading can be called imagination hangout, why? Because if you find yourself reading a book mainly book entitled Failure Analysis of Paints and Coatings your head will drift away through every dimension, wandering in most aspect that maybe unfamiliar for but surely can be your mind friends. Imaging just about every word written in a publication then become one form conclusion and explanation which maybe you never get just before. The Failure Analysis of Paints and Coatings giving you an additional experience more than blown away your brain but also giving you useful information for your better life with this era. So now let us show you the relaxing pattern at this point is your body and mind will likely be pleased when you are finished reading it, like winning a sport. Do you want to try this extraordinary shelling out spare time activity?

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