



Fluorinated Coatings and Finishes Handbook, Second Edition: The Definitive User's Guide (Plastics Design Library)

By Laurence W. McKeen

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Fluorinated Coatings and Finishes Handbook: The Definitive User's Guide, Second Edition, addresses important, frequently posed questions by end-user design engineers, coaters, and coatings suppliers on fluorinated coatings and finishes, thus enabling them to achieve superior product qualities and shorter product and process development times.

The book provides broad coverage of these fluorinated polymer coatings, including the best known PTFE, polytetrafluoroethylene, first trademarked as Teflon® and ePTFE (GoreTex®).

Their inherent qualities of low surface tension, non-stick, low friction, high melting point, and chemical inertness make fluoropolymer coatings widely desirable across thousands of industrial and consumer applications, but these properties also make it difficult to convert fluoropolymers to coatings that have sufficient adhesion to the substrate to be protected.

In this book, readers learn how fluoropolymer coatings are used and made, about their pigments and fillers, binders, dispersion processes, additives, and solvents. The book includes substrate preparation, coating properties, baking and curing processes, performance tests, applications, and health and safety.

- Provides a practical handbook that covers the theory and practice of fluorinated coatings, including the structure and properties of binders and how to get a non-stick coating to stick to the substrate
- Covers liquid and powder fluorocoatings, their applications methods, curing and baking processes, and their commercial end uses
- Presents detailed discussions of testing methods related to fluorocoatings, common coating defects, how they form, how to eliminate them, and the health and safety aspects of using and applying fluorocoatings
- Includes substrate preparation, coating properties, baking and curing processes, performance tests, applications, and health and safety

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Editorial Review

About the Author

Larry McKeen has a Ph.D. in Chemistry from the University of Wisconsin and worked for DuPont Fluoroproducts from 1978-2014. As a Senior Research Associate Chemist he was responsible for new product development including application technology and product optimization for particular end-uses, and product testing. He retired from DuPont at the end of 2014 and is currently a consultant.

Users Review

From reader reviews:

Cory Kyle:

Have you spare time to get a day? What do you do when you have much more or little spare time? Yep, you can choose the suitable activity for spend your time. Any person spent their spare time to take a go walking, shopping, or went to often the Mall. How about open or maybe read a book entitled Fluorinated Coatings and Finishes Handbook, Second Edition: The Definitive User's Guide (Plastics Design Library)? Maybe it is for being best activity for you. You already know beside you can spend your time together with your favorite's book, you can more intelligent than before. Do you agree with it has the opinion or you have other opinion?

Maureen Daniels:

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Virginia Hause:

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