Paint & Coatings Basic

Description

The one day course provides an introduction to paint technology. It will explain why paints are used and the different functional types covering all aspects of decoration and protection. The major building blocks including polymers, pigments and additives will be described and the constraints that relate to different markets. Other aspects include manufacture and application. The question of what makes a good paint will be discussed in terms of performance and test methods, against the background of legislation and the pressure for sustainability and a low carbon footprint. A commercial overview indicating the major market sectors both decorative and industrial is also included.

Who Should Attend

Designed for anyone who is either a newcomer to a paint related field or does not have a scientific background. It will be particularly useful to sales and marketing personnel. For anyone who has a knowledge of chemistry and needs a more comprehensive coverage of the technology of paint coatings you may find the 'Paint Technology' course more suitable.

Contents

Definitions of Paints and Other Surface Coatings

Why are Coatings Used?
- Decorative role
- Protective role

Market Drivers
- Economics
- Legislation
- Sustainability

Properties of Paint and other Coatings
- Appearance (colour, opacity and gloss)
- Liquid Properties including viscosity
- Dry film properties

Testing
- Predicting Performance
- Quality Control
- Standards & Specifications

Coating Technologies
- Waterborne
- Solvent-borne & high solids
- Powder Coatings
- Radcure

Raw Materials
- Resins and Polymers
- Solvents, diluents and carriers
- Pigments
- Functional Additives

Manufacture

Application Techniques
- Contact methods
- Atomisation methods

Coatings Markets
- Architectural
- Industrial

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