

2017 Sink or Swim Conference
Short Course

Title: The Fundamentals of Powder Coating Technology

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Company: Powder Coating Research Group, Inc.

Abstract:

Powder coatings offer the ultimate in environmental and safety compliance as they emit no volatile organic compounds, create minimal waste and are safe to handle with the proper personal protective equipment. This short course will introduce the audience to the advantages of powder coatings as an industrial coating technology and will provide an introduction to binder chemistries including how thermoset resins and curing agents are formulated for performance. An overview of manufacturing processes will be presented underscoring the importance that dispersion and distributive mixing have on ultimate film performance. Application techniques will be described and critical parameters examined for their impact on film build and consistency. The course will wind up with a glimpse into the future, identifying future technology and market trends including materials and process innovations aimed at breaking through the non-conductive substrates barrier.