Formulating Reactive Hot Melt Adhesives

A 90 min online short course

by Edward Petrie

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There is an increasing interest from the adhesive & sealant industry to develop reactive hot melts for high performance applications (transport, building & construction, packaging, electrical & electronics...). Understanding how to combine the advantages of hot melts (fast set, 1K) with the advantages of thermoset technology (creep, heat resistance) is the key!

Formulate easily reactive hot melts to meet high performance applications requirements. Know about state-of-the-art processing techniques specific to reactive hot melts to achieve desired properties.

Edward will review the choice of ingredients & their impact on final performance / crosslinking speed and attention points (packaging, shelf & pot life...) specific to 1K reactive system vs. traditional hot melts.

Why you should attend:

1. Get a fresh eye on current & developing reactive hot melt technologies to formulate for high performance applications

2. Understand how to choose the right ingredients by knowing their impact on final performance, crosslinking speed/ crosslinking rate

3. Know about the key attention points specific to packaging & increasing shelf life & pot life for reactive hot melts compared to standard hot melts
Who is it for?
Hot Melt Adhesives & Sealants formulators who wants to formulate for high performance markets include transportation, building and construction, packaging, and electrical and electronic.

Outline

- Introduction
- Value Proposition of Reactive Hot Melt Adhesives and Sealants
- Possible Polymeric Types and Reaction Mechanisms
  1. Polyurethanes
  2. Polyolefins
  3. Styrene Butadiene Copolymers
  4. Other Polymers
- Processing to Consider for Reactive Hot Melt (Packaging, Shelf and Pot Life, Ambient Conditions...)
- Reactive Hot Melts Trends and New Opportunities

At the end of the training there will be a Q&A Session where you can pose questions to Edward Petrie.
A transcript of all the questions & answers will be made available after the event.
Edward Petrie has been active in the adhesives industry for over 35 years – both in the formulation side and the end-use sides of the industry. He has a BS (Chemical Engineering) and MS (Polymer Science) degrees from Carnegie Mellon University and an MBA from Duquesne University.

Throughout his industrial career, Mr. Petrie has been employed by two major global corporations ABB and Westinghouse as an internal consultant in adhesives and polymeric materials. In both corporations he was part of the Central Research Laboratories and assisted all of the divisions within the organization.

His expertise includes material and process selection, testing, formulating, substrate preparation, and quality control with emphasis on the end-user application and performance requirements. Applications include structural as well as non-structural joining of all materials. Mr. Petrie is also an expert in joining polymeric materials by all methods including mechanical fastening, self-fastening, and heat and solvent welding.

Mr. Petrie has authored over 100 papers on adhesives as well as the popular Handbook of Adhesives and Sealants (McGraw-Hill, October 2000) and Plastic Materials and Processes – A Concise Encyclopedia (John Wiley & Sons, August 2003). He has also given seminars and adhesives and adhesion to corporations, universities, and government organizations.

Currently, Mr. Petrie is an independent consultant and sole proprietor of EMP Solutions. He is also Technical Advisor and Consultant to adhesives.specialchem.com, an online service platform dedicated entirely to adhesives and sealants.

Next session: Tue, Nov 22, 2016 at 10 a.m. ET / 4 p.m. CET - Your local time

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