

Product Presentation

Title of the lecture:

Next generation solventborne urethane inks for retortable flexible packaging

Subject classification:

- Coating raw materials
- **Printing ink raw materials**
- Adhesive raw materials
- Intermediates for construction chemicals
- Laboratory and production equipment
- Testing and measuring equipment
- Application
- Environmental protection and safety at work
- Services

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Abstract (please in english language only):

Current widely used flexible film packaging designs are challenged by the upcoming requirement to be designed-for-recycling by the EU's Packaging and Packaging Waste Regulation (PPWR). In future packaging film architectures, design-for-recycling will influence not only the choice of polymer film materials, but also the selection and use of interlayer resins such as adhesives, primers, inks and protective coatings. Inks in particular, will be an important factor for recyclability: in addition to the effect of the colorants, the polymer binders used in ink formulations can also impact the recycling process. In this context, inks based on polyurethane binder resins offer potential advantages for the recyclability of flexible film substrate materials in mechanical recycling processes. Covestro's full aliphatic solvent borne polyurethane resins provide ink formulators a solution for full-PU inks that maintain the usual resolution and fast processing properties expected by packaging converters. Our portfolio also includes resins suitable for demanding retort applications.