

A PATH FORWARD SAFER PU PAINT: WATERBORNE NISO TECHNOLOGY

Frank COGORDAN

Development and Innovation Leader
Resins for Specialties & Industrial Coatings

Elimination Of Substances Of Concern & Hazardous Air Pollutants – Two pack waterborne polyurethane coatings are commonly used in various industrial applications like general metal, ACE or automotive OEM, and while they can exhibit performances close to solvent-based systems, they can show limitations in film appearance at high film thickness due to the fact that the isocyanate cross-linker reacts with the (water) carrying solvent which results in carbonic gas formation that becomes entrapped within the coating film. Though low VOC, these systems still need the use of sensitizer isocyanate crosslinkers. This presentation will show how it is possible to formulate a two-pack, low VOC, isocyanate free system with sustainable advantages that maintains comparable performances to standard solvent-based systems.