

Innovative aliphatic isocyanate crosslinkers for polyurethane coating

Dr. Tao Yu Wanhua Chemical

In this talk, we will present newly developed low viscosity crosslinker – HDI LV trimer for two component polyurethane coating. As VOC regulation becomes stricter globally, this trimer can bring down the viscosity of whole coating system while retaining the coating performance, including chemical resistance and scratch resistance. We will also discuss HDI based allophanate, which brings flexibility into coating system. An example of using allophanate crosslinker in Polyaspartic system for high solid formulation will be discussed. Polyaspartic chemistry will be a practical alternative to traditional solvent based Polyurethane coating, in certain applications, including anti-corrosion, and flooring.