

LANXESS at FEICA European Adhesive & Sealant Conference and Expo, September 11 – 13, 2019, Dubrovnik, Croatia

### **New low free isocyanate prepolymers for adhesives and sealants**

- **Presentation on advancements in Low Free (LF) isocyanate prepolymer design for reactive adhesive systems**
- **Low Free prepolymers with < 0.1 wt.% free MDI allow to meet the increasingly strict regulatory requirements**
- **New generation of prepolymers offer improved reactivity and functionality for even higher technical performance**

**Cologne** – Specialty chemicals company LANXESS will attend FEICA European Adhesive & Sealant Conference and Expo from September 11 to 13. At this year's event in Dubrovnik, Croatia, technical experts from LANXESS's Urethane Systems business will present the latest developments on Low Free (LF) isocyanate urethane systems for adhesives, sealants and one component foams (OCF). The company is a leading innovator in the development of low free (LF) isocyanate technology.

On the third day of the conference, September 13 at 09:30 a.m., Ronald M. Emanuel Jr., Senior Scientist, Global Research and Development, Adhesives at LANXESS, will speak about "Advancements in low free isocyanate monomer prepolymer design for reactive adhesive systems". The presentation will provide deep insight into low free (LF) isocyanate prepolymer chemistry. "The focus of our development work is to design prepolymers containing low free monomer content for use in adhesive and sealants formulations. In particular, this refers to overcoming the differences that the removal of residual diisocyanate monomer present to the performance of the final adhesive formulation," explains Emanuel.

Furthermore, there will be a table top exhibition at the event for existing and new customers to meet with LANXESS scientists to

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discuss how LANXESS's LF technology can help to provide solutions for specific requirements of their adhesive and sealants products.

### **Adiprene LF – prepolymers with excellent properties**

Under the brand name Adiprene LF, LANXESS has developed unique low free isocyanate urethane prepolymers for use in adhesives, sealants, and one component foams.

The LF technology creates prepolymers with < 0.1 wt.% free MDI (methylene diphenyl diisocyanate) and other isocyanates such as TDI (toluene diisocyanate), HDI (hexamethylene diisocyanate) or pPDI (*p*-phenylene diisocyanate), providing unsurpassed industrial hygiene standards, excellent performance, and improved processing. These prepolymers are particularly suited to address increasingly strict regulatory requirements and provide for final products with lower hazard classifications.

LANXESS's toolbox of Adiprene LF prepolymers is able to tailor the reactivity, viscosity and polyol backbone of the prepolymer to adjust it to the need of the formulators. By controlling the chemical structure, these prepolymers have a very structured morphology to offer more consistent processing.

The FEICA Conference and Expo is firmly established as the leading event for the European adhesives and sealants industry, providing essential insights into the key issues affecting the industry, as well as excellent networking opportunities for formulators, customers and raw materials suppliers to discuss the latest trends, innovations, sustainability and technological advances.

LANXESS is a leading specialty chemicals company with sales of EUR 7.2 billion in 2018. The company currently has about 15,400 employees in 33 countries and is represented at 60 production sites worldwide. The core business of LANXESS is the development, manufacturing and marketing of chemical intermediates, additives, specialty chemicals and plastics. LANXESS is listed in the leading sustainability indices Dow Jones Sustainability Index (DJSI World and Europe) and FTSE4Good.

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## News Release

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You can find further information concerning LANXESS chemistry in our WebMagazine at <http://webmagazine.lanxess.com>.

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### Image



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Researching and developing prepolymers: At FEICA Conference and Expo, LANXESS's Urethane Systems business unit presents the technology for new low free (LF) isocyanate MDI prepolymers for adhesives, sealants, and one component foams.

Photo: LANXESS AG