

URETHANE SYSTEMS FOR DEMANDING COATING APPLICATIONS – WATERBORNE, SOLVENT-FREE, LOW MONOMER, LOW VISCOSITY AND EASY-TO-USE

LANXESS Urethane Systems technologies for the Paint & Coatings Industry

Blocked Polyisocyanates



X Trixene® Aqua
Blocked Isocyanates

- Solvent and water-based curing agents, crosslinkers in 1K stoving systems for industrial coatings to improve mechanical and chemical resistance
- Also act as adhesion promoters

Aliphatic & Aromatic Prepolymers



X Adiprene® LF
Low Free Prepolymers

- Aliphatic LF HDI, H12MDI, and IPDI based prepolymers for erosion resistant and light stable 1K and 2K PUR coatings
- Aromatic LF MDI and TDI based prepolymers for liquid applied waterproofing and construction coatings

Polyester Polyols



X Fomrez®
Polyester Polyols

- High quality Fomrez® polyester polyols for coating applications
- Produced in the US

Waterborne PUD



X Witcobond®
PU Dispersions

- Waterborne polyurethane dispersions (PUD) for coatings and adhesives which can be combined with the water-based Trixene® Aqua crosslinkers

Waterborne Compounds



X Pellart®

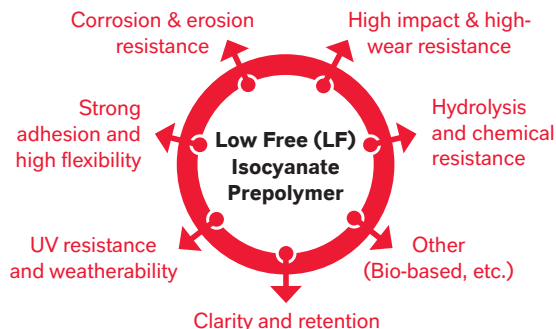
- Ready-to-use lacquer and primer systems for customer's surface requirements
- For automotive interior, furniture and textiles applications

LANXESS ALIPHATIC TRIXENE® AND ADIPRENE® LF SPECIALTY PREPOLYMERS FOR COATINGS

Industry applications for 2K urethane coatings

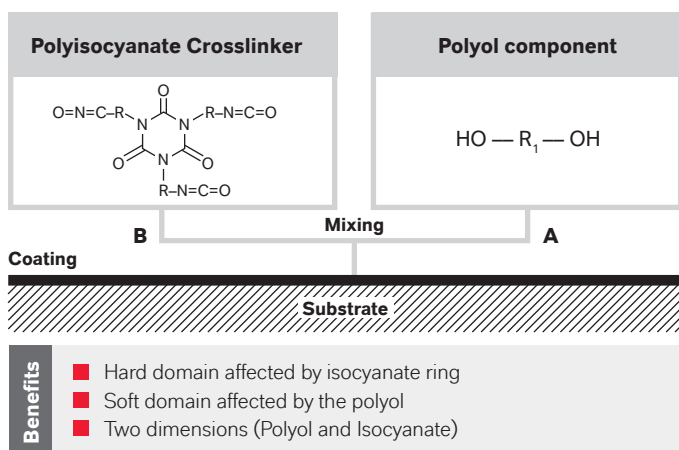
- Coating formulators offer high performance 2K urethane coatings in several applications like
 - Aviation
 - Marine
 - Transportation
 - Industrial
 - ACE
 - Sports
- Especially demanding applications like aviation and marine need long term performance under severe conditions
- LANXESS offers specialty prepolymers with unique properties to support these applications

Key features of high performance 2K coatings

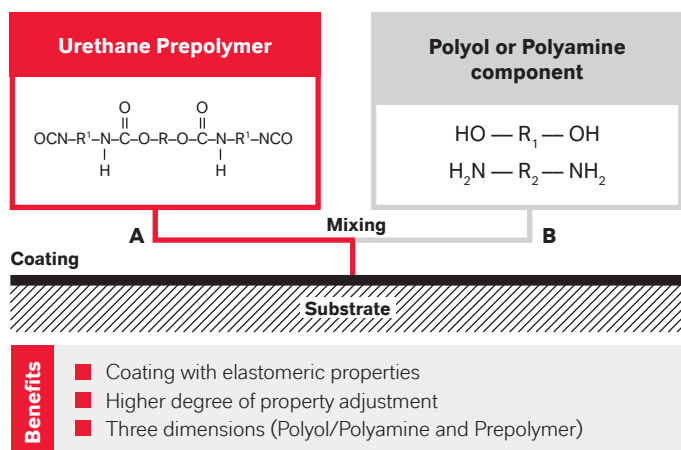


2K urethane coatings can have unique properties using urethane prepolymers as a building block

Crosslinker Approach for 2K Coatings



Prepolymer Approach for 2K Coatings



LANXESS LF prepolymer systems

- LANXESS produce prepolymers used in coatings of wind energy or aerospace applications to protect the leading edge
- Focusing on low free (LF) isocyanate monomer technology (<0.1 wt%)
- Strong expertise in prepolymer formulation for customized solutions
- Improved industrial hygiene and reduced hazard classification whilst delivering excellent durability and weathering performance

Product highlights

- Adiprene® LFH C840 (**HDI**) used for turbine coating
- Adiprene® LW 520 (**H12MDI**) suitable for aerospace and wind energy
- Trixene® DP9C/589 and DP9C/590 (**HDI**) for high performance top coats

LANXESS Deutschland GmbH

Urethane Systems
Kennedyplatz 1
50569 Köln
Germany
Tel: +44 161 875 3568

Customers in the USA are kindly requested to refer to:

LANXESS Solutions US Inc.
Urethane Systems
2 Armstrong Road
Shelton, CT 06484
USA

LANXESS
Energizing Chemistry

www.lanxess.com | www.ure.lanxess.com

This information and our technical advice – whether verbal, in writing or by way of trials – is subject to change without notice and given in good faith but without warranty or guarantee, express or implied, including any warranty of merchantability or fitness for particular purpose, and this also applies where proprietary rights of third parties are involved. Our advice does not release you from the obligation to verify the information currently provided - especially that contained in our safety data and technical information sheets - and to test our products as to their suitability for the intended processes and uses. The application, use and processing of our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility. Our products are sold in accordance with the current version of our General Conditions of Sale and Delivery. Edition 02/2022.

©2022 LANXESS. Trixene, Adiprene, Witcobond, Fomrez, Pellart, LANXESS and the LANXESS Logo are trademarks of LANXESS Deutschland GmbH or its affiliates. All trademarks are registered in many countries in the world.