

New water-based dispersions for high-quality PU systems

- **Expansion of LANXESS' Trixene Aqua BI product family**
- **Excellent crosslinkers and adhesion promoters for aqueous coatings systems**
- **Waterborne one component coatings based upon Trixene Aqua BI**

Cologne, April 16, 2021 – Specialty chemicals company LANXESS expands its unique Trixene Aqua range of water-based blocked isocyanate dispersions. The product family now includes new grades, specifically designed to expand the application areas and meet more demanding customer needs.

Trixene Aqua BI 120 expands the outstanding performance as adhesion promoter of Aqua BI 220, enabling formulators to use it in a wide pH range and further enhancing soft handle. This is beneficial in textile processing where the products can be used e.g. for hydrophobic resins applied in the water proof treatment, for breathable fabrics, and for silk screen printing to improve the prints' resistance to wash cycles.

As a nonionic product, Trixene Aqua BI 522 is designed to achieve harder coating, with superior chemical resistance and good drying characteristics. It is applied to metal and glass surfaces. Glasses, for example, are given excellent durability by this coating agent.

Trixene Aqua BI 202 is born by LANXESS' continuous focus on fiber sizing technologies, whereas the formulator can benefit from its combination with Witcobond polyurethane dispersions. The use of Aqua BI 202 can improve strength of the chopped glass strands and impart composites higher mechanical, flexural properties, as well as improve impact resistance. Glass fibers are used for the formulation of high performance engineering plastics, e.g. polyamide- and PBT-based composites. Such glass-fiber reinforced plastics are

LANXESS AG

Contact:
Michael Fahrig
Corporate Communications
Spokesperson Trade & Technical
Press
50569 Köln
Germany

Phone: +49 221 8885-5041
michael.fahrig@lanxess.com

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indispensable in the automotive and civil engineering industries, among others.

Excellent crosslinking in aqueous systems

The Trixene Aqua products are excellent crosslinkers and adhesion promoters for aqueous coatings systems. They boost the chemical and mechanical resistance of coatings and sizing formulations to allow much better performance and durability in the final application. Due to the blocked isocyanate group they are more stable than the respective free counterparts and can easily be formulated in 1-K and 2-K systems together with a variety of complementary aqueous resins, e.g. hydroxy-functional acrylics, polyesters and urethanes.

Waterborne one component systems based upon Trixene Aqua BI

LANXESS' recent studies disclose formulation principles, preliminary selection of appropriate building blocks, ratio and curing conditions. The selection criteria are based upon a preliminary evaluation of the coatings properties, and help the formulator to commence work with Trixene Aqua BI crosslinkers.

More information about LANXESS polyurethane products for the coatings industry is available at <https://ure.lanxess.com>.



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Contact: Michael Fahrig
Corporate Communications
Spokesperson Trade & Technical
Press
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Germany

Phone: +49 221 8885-5041
michael.fahrig@lanxess.com

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Image



The use of LANXESS Trixene Aqua BI 202 can improve the strength of glass strands and impart composites higher mechanical, flexural properties, as well as improve impact resistance.

Photo: LANXESS AG



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Corporate Communications
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LANXESS is a leading specialty chemicals company with sales of EUR 6.1 billion in 2020. The company currently has about 14,300 employees in 33 countries. 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.

Forward-Looking Statements

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Corporate Communications
Spokesperson Trade & Technical
Press
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