

150 years



News Release

BASF at the UTECH Europe 2015: Polyurethane systems, TPU and PU raw materials for all segments

- **Brand new for automobile exteriors: PU foam system for roof module using honeycomb sandwich technology**
- **From mining sieves to pultrusion**
- **Heat insulation: PU aerogel for high performance insulation**
- **New isocyanate mixtures and polyol components for mattress foams**

BASF will once again be present with its polyurethane experts at the 2015 UTECH International Polyurethane Exhibition and Conference in Maastricht (NL). For the first time, the company will display a new roof module based on the PU system Elastoflex® E. Moreover, the Airbumps® made of Elastollan®, BASF's TPU, will be shown – they have been developed for the Citroën C4 Cactus' exterior. At booth 1390 in the MECC in Maastricht, BASF will be exhibiting the new high-performance insulation SLENTITE® but also various industrial applications using the PU systems Elastocoat® C, Elastolit® D and Elasturan®. These include components for wind turbines, housings and mining sieves. At an exhibited mattress, the BASF experts for PU basic products discuss the options that the formulation of innovative isocyanate mixtures offer in combination with adapted polyols.

At the UTECH conference, BASF experts will explain details about SLENTITE® (M. Fricke), the surface treatment for the application of polyurea spray coats (A. vanOoursouw), the current developments at REACH (K. Kroesen), and about additives for improved PU properties in automotive applications (C. Tartarini).

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Sabine Philipp
Phone: +49 621 60-43348
sabine.philipp@basf.com

Visit us at the
„UTECH“, Maastricht,
April 14 -16, 2015,
MECC, booth 1390

BASF SE
67056 Ludwigshafen
Phone: +49 621 60-0
<http://www.basf.com>
Media Relations
Phone: +49 621 60-20916
Fax: +49 621 60-92693
presse.kontakt@basf.com

Roof module: First honeycomb sandwich with class A film on an automobile roof

With the roof module for the next generation of a compact by a German premium car manufacturer, BASF presents a technical innovation. It has been developed with the PU foam system Elastoflex® E by the company Fehrer Composite Components. The roof module is currently the lightest roof construction for passenger cars on the market and consists of a glass fiber reinforced honeycomb sandwich structure which has been pressed together with a solid-colored class A film by means of PU spray impregnation. The module is about 30 percent lighter than the standard roof in the preceding model. The specific Elastoflex E polyurethane system has been adjusted in such a way that it can be optimally processed in every single manufacturing step, allowing short cycle times and good adhesion properties.

Industrial PU applications

The UTECH exhibits for different industrial applications comprise among others: a pultruded wind blade root section made of Elastocoat® C by FIBERLINE Composites A/S. The properties that count here are high interlaminar shear strength and fast production line speed. A housing made of Elastolit® D is on display, where the rigid duromer integral foam is not only paintable but shows high flowability during processing and good self-releasing properties. A mining sieve based on Elasturan® combines wear resistance, very good tear strength and high rebound.

Heat insulation: PU aerogel for high performance insulation

The first polyurethane aerogel SLENTITE® in the form of a stable panel will also be exhibited at the UTECH. SLENTITE is a high-performance product for building insulation. It provides very thin insulation, very good moisture regulation particularly for the interior, rugged panels and gives the architect a great deal of design freedom. With a lambda value of less than 17 mW/(m·K), SLENTITE provides the best insulation performance to date for a fabricated panel. Today's

standard insulation panels are in a range of 21 to 40 mW/(m·K), which means that SLENTITE® is also extremely space-saving. The compressive strength of > 300 kPa is twice that of standard PU insulation panels. The panels are dust-free and can be easily sawn, milled, drilled and bonded. On completion and start-up of a pilot plant this year, the first sample quantities will be available for selected partners.

New kind of mattress formulations

The exhibited mattress shows the innovative formulation concept around the isocyanate Lupranat MX 118/1. By combining this isocyanate mixture with specifically developed polyol components, chemical-viscoelastic and pneumatic-viscoelastic foams, highly elastic and hypersoft foams can be produced in high quality. The simplified formulation concepts lead to easier processing and a high quality standard of the final products while maintaining a high flexibility for the customer.

On the Internet: www.polyurethanes.basf.com

Contact: pu-eu@basf.com, Phone: +49-5443-12-0

About BASF

At BASF, we create chemistry – and have been doing so for 150 years. Our portfolio ranges from chemicals, plastics, performance products and crop protection products to oil and gas. As the world's leading chemical company, we combine economic success with environmental protection and social responsibility. Through science and innovation, we enable our customers in nearly every industry to meet the current and future needs of society. Our products and solutions contribute to conserving resources, ensuring nutrition and improving quality of life. We have summed up this contribution in our corporate purpose: We create chemistry for a sustainable future. BASF had sales of over €74 billion in 2014 and around 113,000 employees as of the end of the year. BASF shares are traded on the stock exchanges in Frankfurt (BAS), London (BFA) and Zurich (AN). Further information on BASF is available on the Internet at www.basf.com