

Hot cast/cold cure PU system saves energy

- **Novel 3K MDI based PU system from LANXESS**
- **Significant energy savings, reduced CO₂ emissions**
- **Ease of use and improved EH&S**
- **Similar elastomer performance as equivalent hot cure system**

Cologne, September 28, 2021 – LANXESS has developed a hot cast and cold cure system for PU cast elastomers. With this new technology, a Vibrathane MDI ether prepolymer can be cured with a novel Vibracure curative at room temperature driving ease of use, energy savings, EH&S improvement and, last but not least, a significant reduction of CO₂ emissions.

A combination of ease of use and improved EH&S

As the novel Vibrathane & Vibracure system is cured at ambient temperature, the processor can turn off hot tables or ovens, decreasing significantly the risk of burn associated with hot surfaces and, therefore, improving the operator's safety. The new MDI ether based prepolymer also facilitates the manufacturing of larger and complex parts such as mining pipelines which curing process is always challenging and productivity limited by equipment occupancy.

Significant energy savings

Energy consumption has always drawn attention from polyurethane processors as it accounts for a significant proportion of the total manufacturing costs. Depending on the polyurethane plant set up, this system can drive savings up to 40 to 50% of the total energy consumption.

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Sustainability in focus

The novel Vibrathane & Vibracure hot cast / cold cure system is one of the company's latest initiatives to enable the PU industry to improve their carbon footprint. Gerald King, Head of Application Technology EMEA at LANXESS Urethane Systems, says: "Sustainability has increasingly come into focus within the last decade and, by driving clear energy savings, with this new development we offer our customers a more sustainable product and thus contribute to climate protection."

Fully flexible for a wide range of elastomers

The 3K system can be processed by meter mix machine or by hand. It has been chemically designed to offer PU processors full flexibility in producing a wide range of elastomers from a single prepolymer reaching a hardness range from 60 A to 55 D. The cold cure system shows a similar performance in final elastomer properties to the equivalent hot cure.

LANXESS' new development addresses an important concern of PU processors towards easy processing, cost savings and time efficiency, while allowing the industry to support sustainability objectives.

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

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News Release

LANXESS is a leading specialty chemicals company with sales of EUR 6.1 billion in 2020. The company currently has about 14,200 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

This company release contains certain forward-looking statements, including assumptions, opinions, expectations and views of the company or cited from third party sources. Various known and unknown risks, uncertainties and other factors could cause the actual results, financial position, development or performance of LANXESS AG to differ materially from the estimations expressed or implied herein. LANXESS AG does not guarantee that the assumptions underlying such forward-looking statements are free from errors, nor does it accept any responsibility for the future accuracy of the opinions expressed in this presentation or the actual occurrence of the forecast developments. No representation or warranty (expressed or implied) is made as to, and no reliance should be placed on, any information, estimates, targets and opinions contained herein, and no liability whatsoever is accepted as to any errors, omissions or misstatements contained herein, and accordingly, no representative of LANXESS AG or any of its affiliated companies or any of such person's officers, directors or employees accepts any liability whatsoever arising directly or indirectly from the use of this document.

Information for editors:

All LANXESS news releases and their accompanying photos can be found at <http://press.lanxess.com>. Recent photos of the Board of Management and other LANXESS image material are available at <http://photos.lanxess.com>.

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

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