

Reactive PUR hot melts based on renewable raw materials with DYNACOLL® Terra

May 24, 2011

After extension of the DYNACOLL® 7000 modular system of Evonik Industries AG, Essen, with polyesters made from renewable raw materials now Jowat AG, Detmold, introduces their first reactive PUR hot melt based on DYNACOLL® Terra.

Isabel Ramor
Communications
Phone +49 2365 49-4843
Fax +49 2365 49-5030
isabel.ramor@evonik.com

The DYNACOLL® product range began its success story back in the late 1980s. At that time, Evonik's development of co-polyesters containing hydroxyl groups crucially influenced the engineering of one-component moisture-curable hot melts. The building block system of compatible amorphous, liquid and crystalline types of DYNACOLL® enabled the precise formulation of reactive PUR hot melts for the most diverse applications in the adhesives and sealants industry. While this modular system of more than 20 medium-molecular options has been constantly adapted and further developed to meet the latest market demands, the addition of polyester made from renewables now introduces a revolutionary new chapter in the DYNACOLL® story.

“We began raw material screening a little over a year ago,” reports Gabriele Brenner, who is in charge of technical service for Reactive Hot Melts at Evonik. “The aim was to include the synthesis of amorphous, liquid and crystalline polyesters in the DYNACOLL® Terra product range. Not only did we wish to use green components, but we wanted to achieve product properties comparable with, or even better than those offered in the existing product portfolio.”

The result of intensive research, Evonik now introduces six development products with a broad spectrum of properties. The individual products contain between >30 and 100 percent monomers derived from renewable resources. These polyesters can be variously combined in adhesive formulations. Good adhesion properties have already been achieved on a variety of substrates, particularly wood and plastics.

In close cooperation with one of our strategic partners, Jowat AG in Detmold, several adhesive formulations have been developed and adapted to the requirements for specialized applications. At the leading trade fair

Evonik Degussa GmbH
Paul-Baumann-Str. 1
45764 Marl
Fon +49 2365 49-02
Fax +49 2365 49-5030
www.evonik.com/designed-polymers

Chairman of the Supervisory Board
Dr. Klaus Engel
Board of Management
Patrik Wohlhauser (Chairman),
Dr. Thomas Haeberle, Thomas Wessel

Registered office: Essen
Local Court: Essen
Commercial Register B 20227

for the wood and furniture industry, the Ligna in Hanover, Jowat will present for the first-time a reactive PUR hot melt adhesive for edgebanding on the basis of DYNACOLL® *Terra*. "More than 70 percent of the raw materials used in Jowatherm-Reaktant® 607.80 are based on renewable resources" explains Armin Erb, Head of the Technical Support & Service group at Jowat. "In our conception of being one of the important market and technology leader, we provide our customers with adhesive systems that are not only advantageous in application but also ecologically sustainable. The DYNACOLL® *Terra* polyesters open up entirely new opportunities for us in regard to bonding renewable raw materials, like wood respectively wood-based products.

At the same time, Evonik's Adhesive Resins Product Line is continuing the search for suitable monomers from renewable resources. According to their promise "Designed Polymers for Adhesives & Sealants" the DYNACOLL® *Terra* product portfolio will be expanded and optimized systematically. By developing DYNACOLL® *Terra*, Evonik has underscored its responsible corporate position and is driving the trend in the chemicals industry on the way to a greener future.

Information on Ligna

The world fair for the forestry and wood industries takes place in Hanover, Germany from May 30 to June 03, 2011. Jowat AG exhibits in hall 26 stand B 53.

Company information

Evonik is the creative industrial group from Germany. In our core business of specialty chemicals, we are a global leader. In addition, it has energy and residential real estate operations. Our performance is shaped by creativity, specialization, reliability and continuous self-renewal.

Evonik is active in over 100 countries around the world. In fiscal 2010 more than 34,000 employees generated sales of around €13.3 billion and an operating profit (EBITDA) of about €2.4 billion.

About Jowat

The Jowat AG with headquarters in Detmold is one of the leading suppliers of industrial adhesives. These are mainly used in woodworking and furniture manufacture, in the paper and packaging industry, the textile industry, the graphic arts, and the automotive industry. The company was founded in 1919 and has manufacturing sites in Germany in Detmold and Zeitz, plus three other producing subsidiaries, the Jowat Corporation in the USA, the Jowat Swiss AG, and the Jowat Manufacturing in Malaysia. More than 70,000 tons of adhesives are produced annually, with around 730 employees. A global sales structure with 15 Jowat sales organizations plus partner companies is guaranteeing local service with close customer contact.

Disclaimer

In so far as forecasts or expectations are expressed in this press release or where our statements concern the future, these forecasts, expectations or statements may involve known or unknown risks and uncertainties. Actual results or developments may vary, depending on changes in the operating environment. Neither Evonik Industries AG nor its group companies assume an obligation to update the forecasts, expectations or statements contained in this release.