Next generation acryl modified MS Polymers and their applications

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Moisture-curing sealants and adhesives based on Kaneka MS Polymers™ have played for years a very important part in several applications. Moreover, the acryl-modified MA(X) types opened up new markets due to their enhanced UV-stability, weather resistance and improved adhesive properties on plastics. As isocyanate-free adhesives are gaining in importance, this presentation illustrates that a newly developed acryl-modified MS Polymer™ is the ideal base resin for flexible and high-performance adhesives. In combination with advanced fillers and additives, a perfect balance between high elongation (> 500%) and high strength (> 6 MPa) can be achieved, to supplement or even replace traditional high strength bonding techniques such as rivets and metal welds.

In 2010 Steven Vandebril graduated as PhD in Chemical Engineering at the University of Leuven in the Soft Matter, Rheology and Technology group (SMaRT), mainly focusing on the stabilization of immiscible polymer blends. He started his professional career as a Research Chemist at Soudal in Belgium, responsible for the development of hybrid systems based on silane-terminated polymers.

After 3 years in the polymer processing industry, he decided to return to the adhesive and sealant sector, joining Kaneka Belgium N.V in 2019 as a Research and Technical Service Specialist in the MS Polymer™ group under the supervision of Dr. Luc Peeters.

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