

Preview adhesion Issue 02.2024

COVER STORY

Solutions for rotor blade bonding processes

The share of wind energy in the global energy mix will increase continuously in the coming decades. The aim is for wind turbines to supply energy at a price that is lower than that of fossil fuels.

Manufacturers of rotor blades as well as dosing and mixing systems for adhesives will therefore have to face a number of challenges in the future.

ADHESIVES AND SEALANTS

Multifunctional adhesive tapes: sustainable progress for EV batteries and e-mobility

As part of the global goal to reduce the carbon footprint (CF) and achieve the goals of the United Nations Paris Agreement, companies in almost every industry are focusing on developing more sustainable products and solutions. In the automotive industry, the focus is on e-mobility and the production of electric vehicle batteries and energy storage systems, as the European Union and other countries plan to phase out the production of combustion engines from 2035.

APPLICATIONS

Empirical safety assessment of double-sided adhesive tapes

A new innovative approach based on multiparametric fracture analysis provides new insights into the adhesive safety assessment of double-sided adhesive tapes.

RESEARCH AND DEVELOPMENT

Bio-based floor adhesive modelled on spider silk

Requirements for adhesives range from high adhesive strength to easy removability. However, it is difficult to achieve both properties at the same time. With adhesive floor coverings, the focus is often on the adhesive strength, which makes it difficult to remove the floor again. In addition, fossil-based products raise questions about sustainability and recycling. A bio-based adhesive system offers a solution here.

DATES

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