

Dr. Mathis Düwel; Synthomer Deutschland; DE-Marl

FAST-DRYING WATER-BASED PSA DISPERSIONS

The drying of water-based PSA dispersions is an important process step in the production of PSA tapes. An increase in the drying speed during the large-scale drying of water-based dispersions – while maintaining the excellent adhesive properties of the original dispersion – allows for valuable improvements in coating output, line performance, and sustainability.

This talk presents our successful research to significantly improve the drying speed of water-based PSA dispersions. The simulation of the drying process in the laboratory allows for the efficient screening of the influence on the drying speed of modified variants of an existing dispersion.

By using an expert choice and combination of modifications, a fast-drying dispersion could be developed which retains the adhesive properties of the original product.