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ELECTROSTATIC REDUCTION OF MISTING IN ROLL COATING

Roll coating is still the most used method if thin coatings in large volumes need to be applied. Once the parameters are set, it is a very reliable and reproducible method. However, higher productivity usually requires increasing web speeds. This provokes the misting effect to be more serious and many studies have been carried out addressing this phenomenon. Currently the misting is evacuated or reduced by mixing a specific additive to the liquid. Eltex-Elektrostatik-GmbH had developed a system using electrostatic forces that we have now introduced together into the market. The advantage is, that it can be used for liquids for which no additives exist as well or where they are not allowed. In this presentation, we will introduce you to the principle of this method and compare its performance to the additive system using silicon coatings as an example.