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INNOVATIVE SOLUTION FOR PRECISE DOSING OF POLYMERS IN THE CONTINUOUS MIXING OF SEALANTS AND ADHESIVES

Today, the production of adhesives and sealants in discontinuous mixing processes is increasingly being replaced by continuous mixing processes because of faster process cycle times, avoiding of process errors and the opportunity to reach higher throughputs to achieve maximum cost effectiveness.

The optimal mixture of raw materials has a major influence on the function of a seal or adhesive joint so that the individual raw materials have to be mixed in exact percentages and must be reliably fed to the appropriate mixing sections of the continuous mixers.

The base polymers are typically available as bales or viscous materials. Feeding these materials into continuous mixing processes places high demands on the dosing technology.

With the new polymer dosing system from UTH GmbH, it is possible to feed raw materials in different supply forms discontinuously and dose them precisely and continuously at the same time. The system is based on the roll-ex® gear pump technology and has been specially developed for feeding, plasticising and exact dosing mixture components of higher viscosity (sticky, viscous materials and highly viscous bales). In this system, a gear pump is combined with the appropriate feeding unit, a single-screw or conical twin-screw unit. This dosing solution ensures easy handling while offering the prerequisite for easy process integration.