

**Case study:****Continuous Coating of Calcium Carbonate**

<b>APPLICATION</b>	:	<b>Coating</b>
<b>PRODUCT</b>	:	PCC (Calcium Carbonate). Coating medium: stearate (flakes).
<b>REQUIREMENTS</b>	:	Continuous mixing of calcium carbonate with stearic acid flakes to obtain a homogeneous coating of product. Amount of stearic acid: approx. 2 %. Capacity: approx. 3,000 kg/h (PCC)
<b>SOLUTION</b>	:	Bepex Turbulizer TJS-20
<b>RESULTS</b>	:	Turbulizer constructed of 304 SS (contact parts) and provided with a heating jacket. To optimize heat efficiency of the process, a high temperature heating medium (e.g. heat transfer liquid with > 200 °C) should preferably be used. The heating jacket heats up the product and melt the stearate. Together with the intensive mixing of the rotor / paddles, an even distribution of the stearate to the powder and consequently, homogeneous coating will be achieved. For 3,000 kg/h of PCC, the Turbulizer is equipped with a 55 kW E-Motor. Gravimetric metering system for both the PCC and the stearate flakes is essential for an optimum result

