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Precision Moisture Control Case Study

Application:

Accurately disperse a low percentage of sodium silicate solution into a large volume of powders. The final use of the product dictated that the mixed product maintain a **+/- 0.5% moisture tolerance**.

Solution:

The Continuous Processor **successfully and quickly** generated a steady stream of well dispersed product. The **short residence time** did not allow for the product to either gain or lose moisture—**keeping it within spec**.

Challenge:

Maintain consistent moisture content within the narrow moisture tolerance. Mix times for typical batch methods can be very long, making it difficult to maintain moisture consistency. Other methods add water to create a slurry, making it necessary for the water to be dried off. Both of these methods result in an expensive, energy consuming process.

Benefits:

The mixing process can be quickly stopped with only a **small amount of scrapped products**. Low Moisture processing adds only the **minimal amount of moisture** needed to agglomerate and **evenly disperse** the powders. The result is a granular material that can go straight to a tablet press or other downstream equipment.

Process Conditions:

Dry Powder	86.5%
Liquid Solution	13.49%
Jacket Temperature	Ambient
Shaft Speed	220 rpm



Continuous Processor—CP

Features and Benefits:

Customized Paddle Arrangement

Shorter Cycle Time

Fewer Process Steps

Less Waste

Product Consistency