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Thermally Sensitive Ink Case Study

Application:

Mix a **high viscosity ink flush** with several additives.

Challenge:

Achieve a high level of dispersion with minimal temperature input to maintain color vibrancy. The batch process currently used generates heat, and with the lengthy cycle time, has a long heat history.

Process Conditions:

Ink Flush	~30%
Varnish Blend	~40%
Other Additives	~30%
Jacket Temperature	30°F
Shaft Speed	300 rpm

Solution:

In less than one minute, the Continuous Processor was able to **accurately disperse** the ingredients. Product temperature was maintained in the 105-130°F range, even with some of the additive feed streams being pumped in at 150-180°F.

Benefits:

The efficient mixing process with **short residence time** and minimal heat input allows the customer to efficiently produce their ink product **without color degradation**. The continuous process also allows for **on-demand manufacturing**, and the relatively small internal free volume **makes cleaning easier** and requires less solvent.

Continuous Processor—CP

Features and Benefits:

Customized Paddle Arrangement

Shorter Cycle Time

Fewer Process Steps

Less Waste

Product Consistency

