



550 N. STATE STREET
YORK, PA 17403 USA
Phone 717-848-2801
www.readco.com



Drug Delivery Paste Case Study

Application:

Continuously **process an adhesive paste** used as a drug delivery medium for use in pharmaceutical adhesive patches.

Challenge:

Continuously mix two liquid solutions with the proper residence time and shear to allow the solutions to **chemically react and form a homogeneous paste**.

Process Conditions:

Solution A	83%
Solution B	17%
Jacket Temperature	Ambient
Shaft Speed	100 rpm



Solution:

Having **multiple injection ports** to augment the material feed inlet facilitated the **sequential introduction of ingredients** necessary for chemical reaction. The highly **adaptable and flexible** paddle arrangement is capable of **producing shear** ranging from **low to high** producing a consistent homogeneous material with a high level of dispersion.

Benefits:

Low horsepower usage and short residence time results in **reduced energy consumption**. Continuous feeding of materials, concise control, and metering results in **less waste and greater consistency**. The continuous stream of mixed material allows a more streamlined, on-demand packing process **eliminating the need for large hoppers or other storage**.

Continuous Processor—CP

Features and Benefits:

Customized Paddle Arrangement

Shorter Cycle Time

Fewer Process Steps

Less Waste

Product Consistency