



Bercen, Inc.
Where Innovative Solutions Begin!

BERSET® 2125 Replaces AZC on Coated Board

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MILL OVERVIEW:

Mill: Southern Coated Board
Grades: 15 – 20 Pt. Board
Furnish: Unbleached Virgin
 Hardwood/Softwood
Production: 1300 tpd
Speed: 1200 fpm

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SYSTEM OVERVIEW:

Coating Temperature: 100°F
pH: 9.0
Coating Solids: 54%
Coater: On Machine Rod/Air Knife
Coating Dryers: Infrared

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MILL OBJECTIVE AND TESTING REQUIREMENTS:

Replace AZC with **BERSET® 2125** providing a significant cost savings to the mill. The primary quality parameters outlined are to meet or exceed their current printing and glueability specifications. Glueability will be monitored by mill personnel. Samples were taken before the winder at a frequency of every other reel. Printing parameters were evaluated by sending trial paper to an independent printer.

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PRE-TRIAL OBJECTIVES:

A lab study was completed prior to the trial comparing **BERSET® 2125** to the Competitive AZC. The initial study replaced AZC part for part with **BERSET® 2125**. The results indicated the strong possibility of a direct replacement while maintaining all quality parameters. The lab results provided enough evidence to warrant a machine trial.

APPLICATION:

BERSET® 2125 was evaluated at 7% dry weight on dry protein. This represents a 12% reduction in the use of insolubilizer in the rod coating formulation and a 25% reduction in the air knife coating formulation. **BERSET® 2125** was the last component to be added to the system.

RESULTS:

The use of **BERSET® 2125** resulted in a 12% and 25% usage reduction for the rod and air knife formulations respectively. This reduction was accompanied by a 10-20% improvement in glueability while maintaining all quality parameters. **BERSET® 2125** provides twice the solids as the competitive AZC. This high solids, low cost chemistry allowed the mill to capture additional savings in shipping costs. The transition to **BERSET® 2125** not only provided a higher quality product, it also translated into savings to the corporation of over \$1,000,000.