



# Bercen, Inc.

*Where Innovative Solutions Begin!*

## **BERSET® 2155**

Replaces Competitive Glyoxal  
in Offset Coating Application

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### MILL OVERVIEW:

**Mill:** LWC  
**Grades:** 40 lb., 50 lb., 60 lb. Coated Offset; No. 4 and No. 5 Publication  
**Furnish:** Chemical Pulp, GWD, Broke and Coated Broke  
**Production:** 1200 tpd

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### SYSTEM OVERVIEW:

**Off machine Coater:** 3000+ fpm  
**Coating Additives:** Latex, PCC, Clays, TiO<sub>2</sub>, Insolubilizer, Lubricant

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### MILL OBJECTIVE AND TESTING REQUIREMENTS:

Replace the competitive insolubilizer with **BERCHEM® 2155** with equal or better performance at lower cost.  
 Roll strips were taken after calendering. Adams Wet Rub tests performed. Additional Adams Wet Rub tests were done three weeks after the trial to determine relative increase in cure.

### PRE-TRIAL OBJECTIVES:

Bercen conducted a lab study using a generic coating formulation. **BERSET® 2155** and a competitive insolubilizer were introduced into the coating at various levels. Base sheet provided by the mill, was coated and a series of Adams Wet Rub tests were conducted.

The lab study indicated equal or better wet rub results at their current dose of 9 gallons per batch. Lab studies #2002003 and 2002016.

### APPLICATION:

**BERSET® 2155** was applied at equal parts to the incumbent. Approximately 9 gallons of **BERSET® 2155** was added to 2700 gallons in the coating mix tank.

### RESULTS:

Roll strips were taken after calendering and Adams Wet Rub tests performed. All results showed **BERSET® 2155** performed equal or superior to the competitive insolubilizer.

Follow-up testing was conducted 20 days later. The results followed the same trends as before. **BERSET® 2155** performed equal or better than the competitive insolubilizer.