

RECORDED BENEFITS

- \$150,000/yr profit improvement from reduced cull for Cobb test
- \$200,000/yr profit improvement from reduced chemical addition
- 20% reduction in size dosage
- Significant reduction in size variation

Superior Sizing Technology Helps a Gypsum Liner Producer Control Cull and Reduce Internal Size Costs

Prequel™ 2000E Sizing Agent

Customer Challenge

A North American gypsum liner producer was experiencing excessive cull production due to sizing variation. Historical data analysis showed out-of-spec Cobb Test was the prime reason. The mill was also interested in reducing sizing program costs which was around 75% of their total chemical costs.

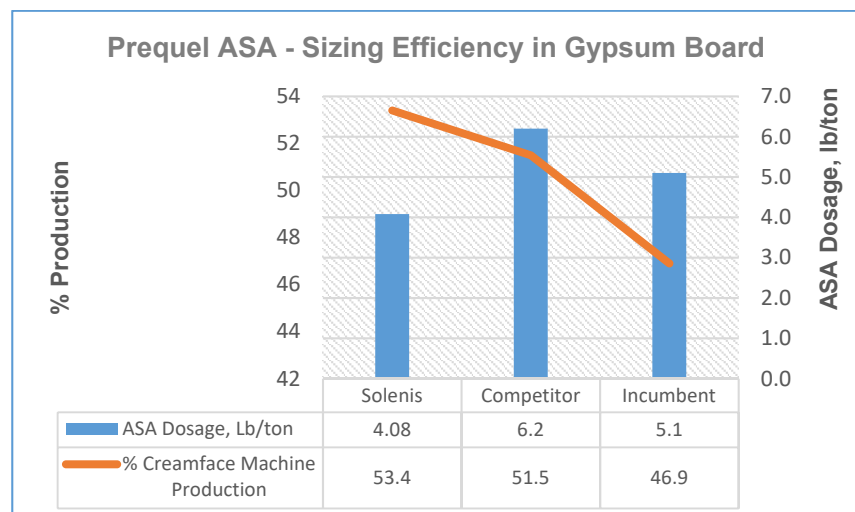
The incumbent alkyl succinic anhydride (ASA) and old generation cationic polymer batch system didn't achieve the customer expectations. It was causing sizing variability. Poor equipment set-up by the competitor was also partly to blame.

Recommended Solution

Solenis recommended Prequel 2000E ASA sizing agent emulsified in Prequel 500 emulsification cationic liquid starch. Solenis' proprietary design PLC-controlled HASE 300B emulsification system was used to make and supply the ASA emulsion directly to the paper machine.

Results Achieved

Solenis' ASA sizing program helped the mill meet their goals of reducing cull board for Cobb test variability and reducing sizing cost/ton. Prequel 2000E/Prequel 500 outperformed the competitor ASA/polymer program. Our state-of-the-art emulsification equipment allowed the customer to control set points and operate directly from the DCS.



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