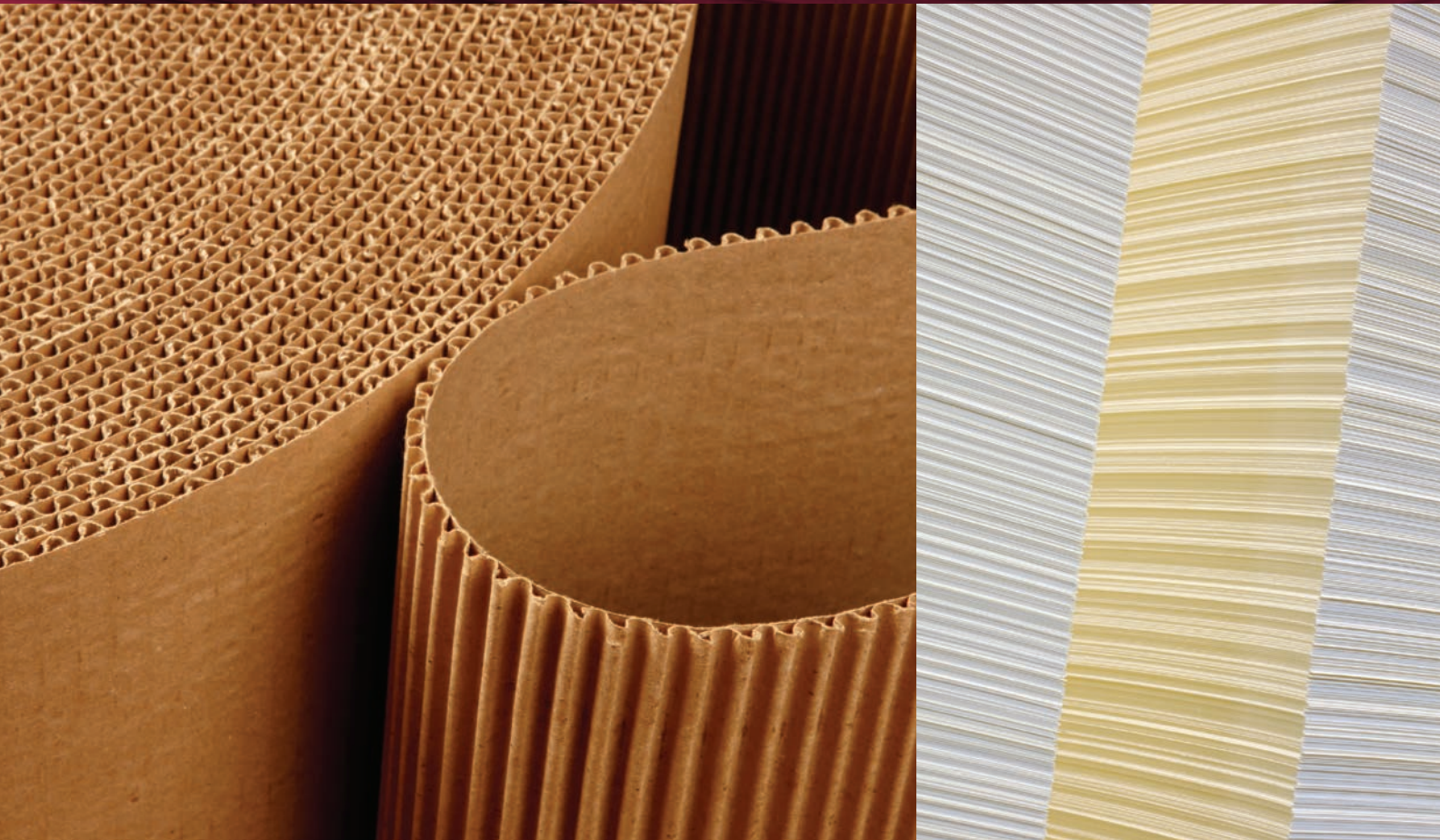


# Bubond<sup>®</sup> 650



Get more stability on the wet end,  
greater consistency at the reel.

## Rely on Medallion sizing with polymer-based emulsification for superior ASA performance.

Cooked cationic starch? It's done. Buckman's Medallion ASA sizing system features a breakthrough emulsifier, Bubond<sup>®</sup> 650, that incorporates a cationic polymer, instead of starch, to bring new operational and quality control to the sizing process. Medallion reduces hydrolysis rates, reduces machine deposition, and simplifies the entire sizing process for your alkaline papermaking system. The result is reduced sizing costs and more consistent Cobb values from reel to reel.

# Lose the starch. Gain control.

Variation in solids content, temperature, and viscosity can have a negative impact on the stability of traditional ASA emulsion, leading to hydrolysis and the resulting wet end deposits. But the Medallion system's Bubond® 650 solution polymer has just the right cationic charge to stabilize the emulsion at a lower temperature. That prevents the troubleshooting deposits that can cause web breaks and sheet defects. And it maximizes particle retention in the sheet. Medallion is the ideal sizing system for gypsum board liner, carton and container board, and printing and writing papers.

## More versatility

By eliminating starch from the emulsification process, Medallion gives you new options for adding starch to enhance strength or retention. You can use a starch with a lower cationic charge. And you can add it earlier in the process for optimal results.

## Reduced costs

With a streamlined, cleaner sizing program, there will be less downtime and less waste. Just as significant, Medallion reduces the amount of sizing required, and that can add up to even bigger savings.

## Outstanding control

Medallion is a comprehensive system designed to meet any sizing requirements, and it features a full range of ASA dosing systems suitable for any machine capacity. Look to us and our specialized equipment for:

- Precise ASA particle size distribution and performance
- A choice of complete, partial, or no integration with your mill's DCS



- Full service management of all wet end chemistries
- The latest monitoring techniques to ensure the reliable delivery of high quality ASA emulsion at all times

## Learn more

If you are still using a cationic starch-based program or you are just not getting the quality and consistency that you need from your sizing program, upgrade to the Medallion ASA sizing system. To find out more, contact your local Buckman representative or visit us online at [buckman.com](http://buckman.com).

## CASE STUDIES

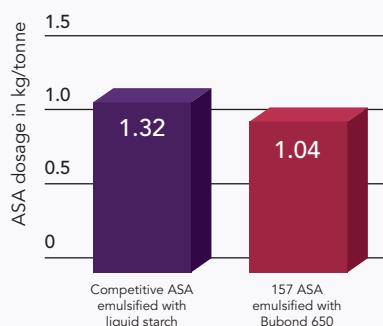
A manufacturer of white top linerboard noted that the variability in the quality of the cooked cationic starch ultimately led to unstable Cobb values on a reel-to-reel basis. Buckman switched to the new improved cationic polymer, and immediately there was an improvement in sizing program performance and a reduction in Cobb variability. Also, the mill realized an 8% reduction in overall size usage, significantly reducing the cost of the entire sizing program.

A manufacturer of printing and writing papers was experiencing press section granite roll deposits, which resulted in holes, sheet defects, and web breaks. Buckman determined that the problem was the result of inconsistent cationic starch quality. Once we implemented the Medallion system granite roll deposition was eliminated, along with the associated problems. An improvement in sizing efficiency led to an overall reduction in chemical usage and lowered costs by US \$0.75/tonne.

A mill manufacturing two-ply recycled linerboard using an ASA emulsified with a liquid cationic starch switched to the Medallion system and saw an overall improvement in sizing efficiency. In fact, ASA usage was reduced by more than 20%.

## Recycled linerboard (Case study)

Converting to Medallion ASA/650



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