Buckman™
Chemistry, connected.

OPTIMIZE YOUR CREPING PACKAGE WITHOUT COMPROMISE

CHALLENGE:

PUSHING FOR QUALITY HURTS THROUGHPUT—AND VICE VERSA

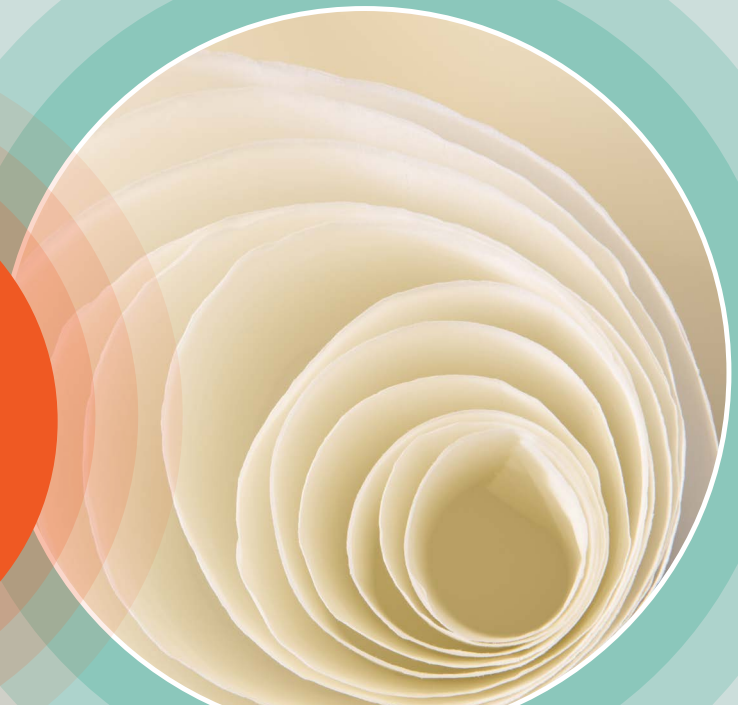
Today's tissue makers are beholden to management and customer expectations for higher quality at lower production costs. When chasing a quality improvement like softness at a higher production volume, many look to furnish changes or chemical additives that will give the desired gains—independent of adjusting the creping process.

Unfortunately, these furnish and chemical changes either disrupt your existing creping package or reduce your creping effectiveness, so you don't gain enough softness. Conversely, if you try to ramp up productivity, you risk increased sheet breaks or quality issues.

Here's the problem: **Placing quality above quantity—or vice versa—while avoiding your Yankee coating package can put your assets at risk**. You incur costs for compensatory measures, like adding softwood or chemical softeners—or changing your blades more frequently.

Meanwhile, **you'll experience excessive downtime, culled material, and lost production** that not only damage your bottom line; but also put your quality—and brand—under a microscope at a time when defects stand out much more than incremental improvements.

Overemphasizing tissue quality over productivity—or vice versa—**can lead to negative consequences** in the other direction.



Matching Buckman's coating chemistry to your end goals, you will be able to achieve the properties like adhesion, robustness or doctorability that will enable the process changes you want to implement.

CONTINUALLY ADAPT CHEMISTRY TO MEET YOUR PRIORITY NEEDS

With most light dry crepe machines aging, furnish availability varying, and operations evolving constantly, your approach to chemical applications can't stay still.

When you partner with Buckman, **you will adapt chemistry to *your* needs**, rather than altering your process for the existing coating package. This is because Buckman dials in custom chemistry packages that match specific chemical properties to your priority use cases and outcomes.

Using Buckman custom chemistry packages, you can address high-priority properties like wet tack/dry adhesion, robustness, and doctorability.

Wet tack/Dry adhesion

If you're experiencing sheet-control issues during transfer to the Yankee (and seeing breaks, wrinkles, or poor roll builds as a result), you can adjust the chemistry for more wet tack or dry adhesion.

That way, **you'll achieve better intimacy between the sheet and the Yankee**, giving you greater creping efficiency and more bulk softness—while driving more sheet explosion at the blade and running at a lower crepe ratio.

Robustness

As you push your process to drive throughput and quality, it can accelerate deterioration of blades and felt—putting more pressure on your Yankee coating.

Using faster-setting coatings with robust wash-out resistance, you can speed up your process *and* maintain coating performance in both very wet and dry conditions. This means **you can expand your operating window and make more high-quality tons**, while reducing energy and improving converting efficiency.

Doctorability

Maybe you're changing blades too frequently or seeing lots of edge breaks, chatter, or visible coating problems.

Buckman chemistries are highly doctorable, **so you can target individual pain points in your process**. You can use high-temperature viscoelastic adhesives to run hotter surface temperatures without losing stretch or experiencing picking. With a hybrid release formula, you can drive caliper and softness at reduced creping moisture without impacting runnability. Or you can apply high-moisture creping adhesive to reduce dust and still achieve desired softness.

The common thread across these examples…

… is your ability to increase throughput at improved machine efficiencies, improve your blade life, and reduce sheet breaks and unnecessary downtime. The net effect? **You can meet your productivity and quality goals aggressively—without sacrificing one for the other**.

Using Buckman's diagnostic technologies, **you can bring a predictive element** to managing your processes.

MAKE PRO-ACTIVE ADJUSTMENTS BEFORE ISSUES ARE APPARENT

By the time many operators recognize that something is off with your process—maybe the coating looks odd, the blade sounds harsh, or they're experiencing breaks—it's usually too late to prevent production impacts.

When you partner with Buckman, your operators can **identify and react to pending process changes before they impact throughput and quality**. You'll also leverage Buckman's Tissue Team to provide a variety of diagnostic tools that bring a predictive element to managing your process.

For example, with vibration analyses of both the cleaning and creping blades, you can see how furnish or other changes are affecting your equipment.

With real-time natural coating data, you can see wet end changes happening before they impact your creping process. The Tissue Team can even use augmented reality to gain real-time visibility into your process—providing direct support without geographical restrictions.

With this level of comprehensive insight into your processes, **you can head off potential quality and production issues and maintain momentum toward your most important KPIs**.

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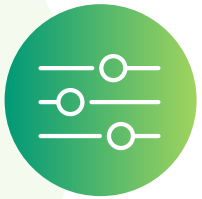
When you work with Buckman and treat Yankee coating as the enabler of your processes, you can make more tissue at higher quality and lower costs, innovate your tissue products to meet and exceed consumer demands, and continually improve your operations.

Specifically, you'll be able to:

Continually adapt chemistry to meet your priority needs



Make proactive adjustments before issues are apparent

By implementing a custom light dry crepe package from Buckman, customers have experienced:

- **4% reduction in crepe ratio ($700K)** with Bubond® Yankee coating
- **$1.0M in improved production due to increased stretch to crepe** from Busperse® Film Modifiers

Join other leading manufacturers in improving their creping process to stay ahead of the market.

For more information, visit our website.

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