

**DEPOSIT
CONTROL
PROGRAMS**

**Greener
technology
for deposit
control**



MAINTAIN A CLEANER MACHINE

and a safer environment.

Buckman deposit control and boilout programs include formulas specially created to reduce corrosion, organic demand and toxicity in your systems while providing superior performance.

From controlling stickies and wet end deposits on your paper machines to efficient boilouts and dryer felt cleaning, Buckman's enzymatic and other advanced technologies help you improve worker safety, lower chemical costs and reduce downtime and maintenance. With a customized program from Buckman, you can put less into the environment and more on your bottom line.

From start-up to boilout, you've got deposits under control.

Buckman Deposit Control Program

Keep your wet end clean

Buckman's wet end control programs can help keep your paper machine cleaner and running better. Proprietary combinations of enzymes and dispersants inhibit general wet end deposits from forming on paper machine surfaces and can improve the performance of a biocide program.

Enhance health and safety

Buckman's ongoing product improvement effort has resulted in products with reduced toxicity and lower-VOCs. More Buckman products are formulated from sustainable raw materials. Utilizing these Buckman products can reduce the risks associated with the use of harsher chemicals.

Control stickies, reduce solvents

Buckman's Optimize[®] Plus enzymatic technologies for stickies control can reduce the quantity of stickies in your system and decrease the impact of the stickies that remain. Busperse[®] 2911 will clean stickies off of your fabrics without the high flammability of traditional solvent cleaners...with only 20% of the VOCs.

Improve quality

Buckman deposit control programs such as Busperse 2799, our new detackifying Kraft pitch control agent, helps to improve sheet quality and reduce holes, breaks and off-spec production. It has no negative impact on sizing, color, retention, drainage or other machine operations when used as directed.

Advanced Buckman Boilout Programs

Remove deposits without caustic

Traditional alkaline boilouts are effective, but they are also potentially dangerous and require additional safeguards to protect your people and your effluent system. Buckman uses our enzyme technology to accelerate deposit removal in paper machine systems to address these safety and environmental concerns. Our special enzymatic products target and destroy the binders that hold together paper machine deposits.

Reduce organic and inorganic deposits

Buckman enzymatic programs attack all kinds of deposits, including:

- Starch-based paper machine and size press deposits
- General wet end deposits in mill stock chests, approach piping, headbox and forming section
- Paper machine and coating system deposits composed of starch, cellulosic fiber, wood pitch, latex and adhesives

A revolutionary approach to dryer felt cleaning

Alkali is typically used to clean dryer felts. Although the alkali cleans well, the alkali can degrade the seam on the dryer felt and cause the felt to fall off the machine into the basement. Busperse® 2449 is a non-flammable solvent product that can be added directly to the hot dryer cans. This means that the dryer felt can be cleaned at the beginning of the shutdown at the same time as the boilout.

Busperse 2449 gets the dryer felts much cleaner without risk to the felt.



Photo courtesy of Voith.

Ensure safer handling

These Buckman programs utilize materials that can improve worker safety and provide a higher assurance of protection in the workplace.

The pH of Buckman products is neither highly acidic nor alkaline, so they are less hazardous than acid or caustic products.

Streamline the boilout process

At recommended temperature and dosage, Buckman enzymatic technologies require about the same recirculation time as traditional programs. Because they eliminate the need for harmful solutions, maintenance can often be performed around the machine during boilouts, saving time and reducing risk of injury. In addition the pH isn't elevated, so there isn't a need to neutralize the solution before discharging to effluent waste treatment.

Learn more

Find out how Buckman's enzymatic deposit control and boilout programs can help make your mill cleaner, safer and more productive. Contact your Buckman representative, or visit buckman.com.



CASE STUDIES

Challenge: A mill producing 100% recycled paper-board was concerned about caustic safety issues and had a problem with paper machine system deposits.

Solution: Buckman's enzymatic boilout program eliminated deposits in tanks and lines and reduced safety and health concerns.

Challenge: A fine, coated paper mill wanted to enhance safety by eliminating the use of caustic during traditional paper machine boilouts.

Solution: Buckman began an enzyme-based boilout program that matched the effectiveness of the traditional boilout and in some areas—especially the headbox—exceeded it.

Results: The mill now completes boilouts in less time and has a cleaner system, with fewer related start-up deposits than experienced with caustic boilouts.

Challenge: A fine paper mill using softwood and hard-wood Kraft furnish had a problem with starch deposits in its size press system.

Solution: Buckman replaced their caustic boilout with our enzymatic boilout program, which unlike conventional boilouts, quickly and completely removed the starch deposits.



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