

LOCTITE®



FDA Compliant Loctite® 2046™ Threadlocker Secures Critical Food Equipment Components

For more than 130 years, Henkel has been a leader with brands and technologies that make people's lives easier, better and more beautiful. Henkel operates in three business areas – Home Care, Personal Care, and Adhesives Technologies – and is ranked among the Fortune Global 500 companies.



As bottling companies strive to boost capacity by increasing line speeds, greater demands are placed on bottling equipment. Faster speeds often mean increased vibration and many more machine cycles per day, which can cause greater challenges for scheduled maintenance.

Threadlockers are a proven means of keeping threaded fasteners secure under conditions of extreme vibration, wide temperature swings, and immense shock from equipment start and stop cycles, but until recently, none were approved for use in food & beverage process applications. With government and third party quality agencies subjecting food and beverage manufacturers to ever greater scrutiny, bottlers faced a challenge balancing production goals against rigorous quality, safety, and plant hygiene standards.

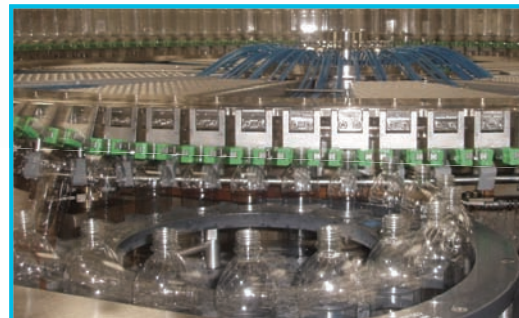
This problem was solved by the introduction of Loctite® 2046™ Threadlocker, a removable-strength product that can lock and seal threaded fasteners on all types of food and beverage processing equipment, like mixers, fluid fillers, deep fryers, and conveyor systems. Designed for use at temperatures up to 400°F, the cured product fully complies with FDA food additive specification 21 CFR § 175.300.

Loctite® 2046™ Threadlocker recently came to the rescue of a major bottling operation, where an equipment reliability problem was impairing productivity. The bottling company uses a high speed rinser to clean 1,000 bottles per minute before sending them to the filler. The rinser has 120 grippers to orient empty bottles and each gripper is stabilized by two bolts.

Bottle rinsers are subject to constant vibration and moisture, and the bolts would often vibrate loose. Additionally, rust and mold would develop on the bolt threads, creating the potential for product contamination. To prevent contamination and avoid

unscheduled downtime, maintenance personnel would remove, clean, and retighten the bolts every month.

When Henkel introduced Loctite® 2046™ Threadlocker, the bottling company was quick to adopt it into its bottle rinser maintenance procedures. Loctite® 2046™ prevents the gripper



bolts from vibrating loose, and by filling the voids between the bolts and the threaded holes, it prevents the formation of rust and mold. Scheduled downtime on the bolts declined from monthly to annually. During maintenance, bolts are rust-free and easy to remove.

“Loctite® 2046™ Threadlocker enabled us to improve product safety and reduce downtime on critical equipment,” said the Manufacturing Manager of a major bottling company.

For the bottling company, Loctite® 2046™ Threadlocker has enhanced equipment reliability, increased productivity, and improved product safety and quality assurance. Maintenance personnel can now focus on more pressing issues, and operations worry less about downtime caused by the bottle rinser, which impacts overall plant productivity.

For more information and a free sample, visit us at www.henkelna.com/2046 or call 1-800-LOCTITE.

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