



## For Immediate Release

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### **MIXEL 432/0 DEMONSTRATION PROVES EFFECTIVE, “GREEN” WATER TREATMENT IN COOLING TOWER APPLICATIONS**

**Arlington, VA – October 14, 2015** – Mixel USA LLC announced today preliminary results from the first six months of a demonstration of the Mixel 432/0 cooling water treatment on a system servicing the Main Campus of a major Midwestern university. The program showed effective control of scaling, corrosion and biological activity across a wide variety of operating conditions in a 40,000 gallon chiller/cooling tower system.

The beneficial results included significant control of scaling confirmed by visible reductions in deposits on the tower fill and consistent balance of the water chemistry despite deviations in conductivity control that resulted in higher cycling of the towers. Cleanliness of the tower fill improves heat transfer and indicates that condensers/chillers in the system are also likely to experience less scaling and improved efficiency. Similarly, corrosion control was good with Corrator readings averaging below 3.0 mpy for mild steel and 0.3 for copper. Pending coupon readings are expected to reflect equal or superior performance and the chillers will also be inspected at the end of the season.

Total aerobic bacteria counts, an important indicator of potential health risks, improved during the test period and remained within acceptable levels despite significant fouling in the sludge in the tower basins at the beginning of the treatment season. The improvement in counts is attributed to the ability of the Mixel emulsion to prevent and control the biofilm that fosters biological fouling including the Legionella bacteria.

While these results demonstrate the efficiency and resilience of the Mixel 432/0 water treatment in a wide range of water chemistries, significant additional operational benefits were identified. Because the Mixel treatment focuses on coating the internal surfaces rather than the water itself, less monitoring of water chemistries and chemical levels is needed. The Mixel treatment also replaced several chemicals used in much larger quantities substantially reducing the labor and maintenance costs for the University. The equipment and storage space required for the Mixel program were also drastically reduced. System operators also noted that circuits treated with Mixel performed as well or better than those on previous treatment programs.

**Mexel pump and 1 week product supply**



Mexel 432/0 is an innovative emulsion whose properties include a mild biocidal effect that was recently approved and registered with the U.S. Environmental Protection Agency. The system employed for the demonstration included two 1200 ton and one 650 ton centrifugal chillers interconnected to two cooling towers. Makeup water was from the local municipal system and classified as hard, historically causing scaling problems. Mexel 432/0 was injected for 30 minutes daily to achieve a concentration of 2.0 to 2.5 ppm in the recirculating water. Conductivity blow down controllers were set at exactly the same levels as the traditional program for a fair comparison. University engineers closely monitored system operations using a number of established performance indicators. The results will be analyzed and compared, along with economic and environmental factors, to historical data for an overall evaluation of the project.

Recognizing the impressive performance to date, Mexel USA President Mary Wolter Glass stated, "We are pleased that the results confirm our strong belief in the ability of Mexel 432/0 to give our customers superior water treatment performance that is environmentally responsible and protects the safety of their workers and the public. The vision and hard work of our University partners has been essential in documenting the value for the campus and the potential to meet their service responsibilities campus-wide in a cost-effective manner. We look forward to working with the University for many years to come."



## **Mixel USA, LLC**

Mixel USA, LLC, is the exclusive importer and supplier of Mixel® filming amine emulsion water treatments to the U.S. Mixel USA offers products manufactured by Mixel Industries SAS, France, as well as design, installation, and/or operation of the water-treatment systems. These emulsions are based on extensive research and development and produced from organic substances to be safe for the environment. Mixel 432/0 is a registered biocide with the U.S. Environmental Protection Agency. These products have been used in the U.S. for over eight years in more than 50 facilities, and world-wide for two decades. Successful applications range from commercial and institutional buildings to large power and industrial plants in once-through cooling and cooling tower systems. For more information on Mixel water treatment products, please visit <http://www.mixelusa.com>.