

REFERENCE PROJECT | Maximizing Production with a High-Efficiency Water Recycling System

Taking bigger steps...
to leave a smaller footprint

To comply with local POTW waste limits, a popular sealants manufacturer needed a solution that would enable them to treat their wastewater onsite.



THE CHALLENGE

Production capacity constrained by water limitations

An international heavy industry parts manufacturer faced a critical challenge: insufficient water supply for expanding production. The facility's city permit allowed only 1,500 gallons per day—far below the 30,000 gallons needed for daily rinse water. The company's rapid growth outpaced its water resources. Limited to a fraction of the required water, production struggled to keep up with demand.

The manufacturer needed a reliable, sustainable solution to recycle wastewater and meet operational needs without exceeding permit restrictions. The company partnered with MacDermid Envio to implement an innovative water recycling strategy.

THE MACDERMID ENVIO SOLUTION

Recycling wastewater to overcome supply challenges

MacDermid Envio designed and installed a wastewater batch recycling system tailored to the manufacturer's needs. Key features included:

- High-Quality Effluent: Treated wastewater suitable for reuse as rinse water
- Automated Treatment: Separate processing for concentrated waste streams
- Modular Design: Scalable for future growth with minimal capital investment

The system integrates advanced automation, ensuring cost efficiency and operational reliability.

THE RESULT

Efficient water management enables growth

The Georgia facility now recovers 99.8% of its water, using only half of its permitted daily allowance. This sustainable approach supports:

- Increased Production: Sufficient water for daily operations
- Cost Savings: Reduced dependency on external water sources
- Future Scalability: Modular design accommodates growth

MacDermid Envio's solution empowers the manufacturer to focus on quality production and business expansion without water constraints.



See our web site for more details
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