

REFERENCE PROJECT | Tailored Wastewater Solutions for Adhesives and Sealants Manufacturer

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

A leading sealant manufacturer faced wastewater challenges: Producing emulsions for glue and sealants generated wastewater with high levels of total suspended solids (TSS) and biological oxygen demand (BOD), leading to frequent line clogs requiring costly repairs and causing expensive surcharges from the local publicly-owned treatment works (POTW).

The plant's poorly designed system:

- Failed to adequately remove TSS and BOD
- Resulted in high operational costs and regulatory penalties
- Required a partner capable of delivering a customized and effective solution

The manufacturer's initial attempt at designing an in-house pretreatment system failed to meet compliance standards, prompting the need for a specialized solution.

THE MACDERMID ENVIO SOLUTION

MacDermid Envio collaborated closely with the manufacturer's team to design a tailored wastewater treatment plan. Key steps included:

- Conducting treatability studies to analyze wastewater parameter
- Installing a batch treatment system capable of handling 20,000 GPD
- Developing a customized chemical regimen to maximize treatment efficiency

The solution reduced TSS by 99% and BOD by 95%, ensuring compliance with strict discharge limits. MacDermid Envio's team provided ongoing support, solidifying the partnership and enabling sustainable operations.

THE RESULT

The sealant manufacturer achieved:

- 100% Compliance: Met all local POTW wastewater limits
- Cost Savings: Eliminated surcharges and reduced operational expenses
- Scalability: Prepared for future growth with a flexible, efficient system

MacDermid Envio's expertise turned a compliance issue into a streamlined, cost-effective wastewater solution



See our web site for more details
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