

CASE STUDY:

WISCONSIN WASTE TANK

CLIENT

Wisconsin Wastewater
Client

PROBLEM

An aging, above-ground concrete waste tank required extensive resurfacing and rehabilitation after decades in service without maintenance or corrosion protection.

RESULTS

Conco Spray Solutions restored the tank with a seamless SprayShield Green lining, delivering durable protection, improved performance, and extended service life in harsh wastewater conditions.

A concrete, above-ground receiving tank in Wisconsin had been in continuous service for more than 20 years without being taken offline. Measuring approximately 34 feet in diameter and 16 feet deep, the 3,500-square-foot structure showed significant surface degradation. After the tank cover was removed and the structure was thoroughly cleaned, it became clear that the interior concrete walls required substantial resurfacing. Additionally, new pedestals needed to be formed and poured to support an updated roofing system. The project required a long-term solution that could restore integrity while providing durable chemical and corrosion resistance.

SOLUTION

Conco Spray Solutions, a Sprayroq Certified Partner, worked closely with engineers and the prime contractor during the design and specification phase to develop a comprehensive rehabilitation approach. The concrete walls were resurfaced with a half-inch to one-inch concrete underlayment application and finished with a broom texture to promote optimal adhesion. Once prepared, the surface was primed and lined using SprayShield Green at a thickness of 250 mils. To address the complexities of the structure, the installation process was carefully sequenced. Walls were lined first using extensive scaffolding to ensure full access and proper application. Once completed, scaffolding was removed to allow for floor preparation and lining. Throughout the process, maintaining the substrate and application environment was critical to ensure coating performance.

RESULTS

Conco Spray Solutions successfully rehabilitated the tank with a seamless, high-performance protective lining designed to withstand the demanding wastewater environment. SprayShield Green provided a uniform barrier across all surfaces, enhancing durability and extending the service life of the structure. Despite challenges posed by ambient environmental conditions, the project was completed with precision and in accordance with specifications.

CONCLUSION

This project highlights Conco Spray Solutions's ability to collaborate early in the design process and deliver tailored solutions for complex rehabilitation challenges. By combining proper surface preparation, strategic application sequencing, and the proven performance of SprayShield Green, the result is a fully restored waste tank built for long-term reliability and protection.



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