

CASE STUDY



When it absolutely, positively must last.



BEFORE



AFTER

PROJECT SNAPSHOT

NAME:

CONOVER WASTEWATER TREATMENT PLANT
AERATION BASIN REHABILITATION

LOCATION:

Conover, North Carolina

OVERVIEW:

CTR Coatings, an OBIC-certified installer, restored four deteriorated aeration basins at the City of Conover's wastewater treatment plant using OBIC's Armor Multi-Layer System. The project significantly extended the life of the basins, improved efficiency, and minimized costly service interruptions.

OBIC PRODUCTS USED:

- OBIC Armor Multi-Layer System

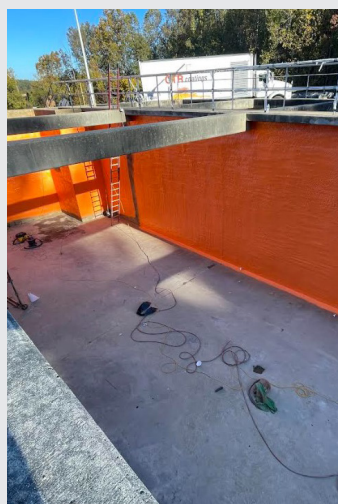
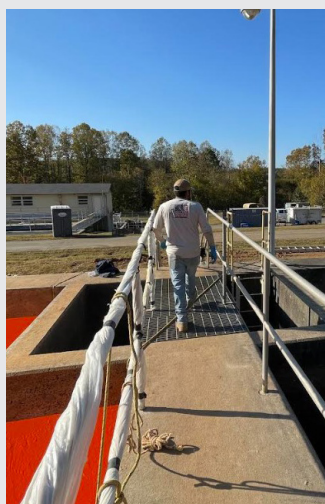
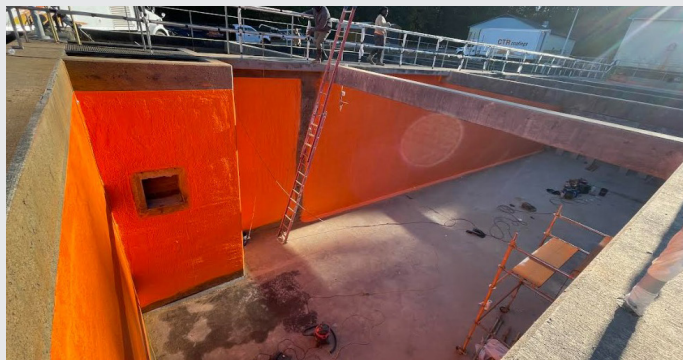
CERTIFIED INSTALLER:

CTR COATINGS

JOB COMPLETION:

Summer 2024

CASE STUDY



SITUATION

The City of Conover, NC, faced significant deterioration in four large aeration basins at its wastewater treatment plant, each measuring 110 feet long, 26 feet wide, and 17.5 feet deep. Years of exposure to hydrogen sulfide (H₂S) gas and constant wear had weakened the concrete, exposing aggregate and compromising performance.

Left unaddressed, the degradation could have led to structural failure, operational inefficiencies, and costly downtime. The city needed a reliable partner to restore the basins, mitigate future corrosion, and ensure the system's long-term durability.



When it absolutely, positively must last.

SOLUTION

Conover Public Works selected CTR Coatings, a trusted OBIC-certified installer, after seeing firsthand their expertise and the proven results of the OBIC Armor Multi-Layer System. The decision was further reinforced by OBIC's 100% hydrogen sulfide gas resistance, American-made quality, and industry-leading 10-year warranty.

CTR began by hydroblasting two basins to remove weakened material and prepare the surface for coating, a process completed in about one week. Over the following two weeks, crews applied OBIC's Armor Multi-Layer System:

- OBIC 1000 Polyurea Base Layer – Provided superior adhesion and moisture sealing.
- OBIC 1306 Polyurethane Foam Layer – Added structural support and durability.
- OBIC 1000 Topcoat – Delivered a seamless, corrosion-resistant finish for long-term protection.

To maintain service continuity, the project was strategically phased: two basins were completed in the spring, and two additional basins were scheduled for summer completion.

Despite challenges such as inclement weather, CTR's project management and coordination ensured the work stayed on track, minimizing disruption to city operations.

BENEFITS

By partnering with CTR Coatings and OBIC, the City of Conover extended the lifespan of its wastewater infrastructure without the need for costly replacements.

The OBIC Armor Multi-Layer System provided long-term protection, improving the reliability of the city's operations and ensuring a sustainable investment in critical infrastructure.

This successful rehabilitation demonstrates how OBIC-certified installers deliver measurable results using American-made, proven coating technology that municipalities can trust.

