CASE STUDY:

Indiana Secondary Containment Tank Expansion

CLIENT

An Indiana Wastewater Treatment Plant

PROBLEM

Ferrous chloride exposure and incidental spills can deteriorate concrete containment areas, creating a need for reliable, chemical-resistant protection where traditional corrosion barriers have fallen short.

RESULTS

Conco Spray Solutions expanded the facility's secondary containment area using SprayWall, incorporating the new lining alongside the existing system to provide long-term protection against chemical exposure.

An Indiana wastewater treatment plant needed to expand its ferrous chloride containment area, adding approximately 2,000 square feet of secondary containment space. The newly constructed concrete surfaces required a protective lining capable of withstanding the aggressive chemical conditions associated with ferrous chloride storage.

SprayWall had previously been installed at the facility in 2011. As part of the expansion, the existing lining remained in place, with new SprayWall lining applied to the additional containment areas to extend the same long-term protective system throughout the expanded facility.

SOLUTION

Conco Spray Solutions, a Sprayroq Certified Partner, performed the protective lining installation using SprayWall structural polyurethane lining.

Surface preparation began with scarifying the new concrete, followed by the use of fast-setting mortar to round corners and fill bugholes. These steps prepared the surfaces for a consistent lining application.

The team then applied SprayWall at the specified thickness of 276 mils (7 mm), creating a chemical-resistant protective barrier across the new containment surfaces.

RESULTS

Completed in June 2025, the project provided the expanded secondary containment area with a SprayWall lining to withstand exposure to ferrous chloride.

The original SprayWall lining continued to perform as intended, the goal of the project was to extend that protection into the newly constructed containment areas, creating a continuous protective lining system throughout the expanded facility.

CONCLUSION

This project demonstrates how SprayWall can rehabilitate challenging wastewater treatment infrastructure, providing chemical-resistant protection for newly constructed containment areas while complementing an existing lining system.









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