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Case Study

Waste Water Treatment Facility for FGD System

UCC as a single-source contractor, completed the application of corrosion control to all surfaces at this FGD Water Treatment Facility, providing a cost effective installation.

See below for details.

Interactive Overview Features

HOW TO USE. Simply roll your mouse over the numbered area to reveal more details about that area.



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Project Overview & Work Performed

UCC provided complete corrosion control to all surfaces at this FGD Water Treatment Facility. All structures supporting: mixing, solids recirculation, sludge thickening and clarification received the most advanced corrosion protection. UCC provided single-source, cost effective installation of: coatings, linings, painting, architectural finishes to newly constructed Flue Gas Desulfurization Wastewater Treatment.

IN THE NEWS



Blome International Vitrified Tiling Systems

Ultimate Corrosion is please to announce a new product line serving the Food & Beverage Industry. Blome International is a leader in providing innovative hygienic infrastructure asset management solutions. [More...](#)

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1. Equalizations (EQ) Tanks

Exterior Surface preparation: SSPC-SP-10 (NACE2) - near white metal abrasive blast

Coating: Inorganic Zinc/ Epoxy/ Aliphatic Polyurethane System

Interior Surface preparation: SSPC-SP-5 (NACE1)- white metal abrasive blast

Lining: highly modified Novolac Vinyl Ester, flake filled Lining System with Abrasion Resistant Top Coat



2. Agitators

Agitator Surface preparation: SSPC-SP-5 (NACE1) - white metal abrasive blast

Agitator Coating: 80-100 mils superior abrasion resistance, Novolac Vinyl Ester Polymer



3. Primary and Secondary Clarifiers

Exterior Surface preparation: SSPC-SP-10 (NACE2)- near white metal abrasive blast

Exterior Coating: Inorganic Zinc/ Epoxy/ Aliphatic Polyurethane System

Interior (Carbon Steel Walls) Surface preparation: SSPC-SP-5 (NACE1) - white metal abrasive blast

Interior Lining: highly modified Novolac Vinyl Ester, flake filled Lining System with Abrasion Resistant Top Coat

Concrete FloorSurface preparation: SSPC-SP-13 (NACE6) - abrasive cleaning

Floor Lining: high performance, crack-bridging elastomeric lining system KCC Corrosion Control Elasti- Liner I.2



4. Gravity Filtration

Exterior Surface preparation: SSPC-SP-10 (NACE2) - near white metal abrasive blast

Exterior Coating: Inorganic Zinc/ Epoxy/ Aliphatic Polyurethane System

Interior Surface preparation: SSPC-SP-5 (NACE1) - white metal abrasive blast

Interior Lining: 100% reactive solids, high performance, amine adduct cured Epoxy Lining designed to resist wet solids impact.



5. Sludge Tanks

Exterior Surface preparation: SSPC-SP-10 (NACE2)- near white metal abrasive blast

Exterior Coating: Inorganic Zinc/ Epoxy/ Aliphatic Polyurethane System

Interior Surface preparation: SSPC-SP-5 (NACE1) - white metal abrasive blast

Interior Lining: highly modified Novolac Vinyl Ester, flake filled Lining System with Abrasion Resistant Top Coat

Agitators Surface preparation: SSPC-SP-5 (NACE1) - white metal abrasive blast

Agitators Coating: 80-100 mils superior abrasion resistance, Novolac Vinyl Ester Polymer



6. Recycle Sludge

Exterior Surface preparation: SSPC-SP-10 (NACE2) - near white metal abrasive blast

Exterior Coating: Inorganic Zinc/ Epoxy/ Aliphatic Polyurethane System

Interior Surface preparation: SSPC-SP-5 (NACE1) - white metal abrasive blast

Interior Lining: 100% reactive solids, high performance, amine adduct cured Epoxy Lining designed to resist wet solids impact.



7. Ferric Chloride/ Sulfuric Acid Storage Tanks and Concrete Secondary Containments

Tank Lining Surface preparation: SSPC-SP-5 (NACE1) - white metal abrasive blast

Tank Lining: ambient cured, flake filled Epoxy Novolac

Concrete Secondary Containment Surface preparation: SSPC-SP-13 (NACE6) - abrasive cleaning

Secondart Containment Lining: high performance, crack-bridging elastomeric lining system KCC Corrosion Control Elasti- Liner II



8. Water Treatment Building

Worked performed: Architectural Finished, Painting- Equipment, Piping, Structural Steel

Building Linings: Primary and Secondary Containment, Floor Coatings and Sealers, Caulking and Sealants, and Decorative Finishes



9. Filtrate & Backwash Stream Lines

Exterior Surface preparation: SSPC-SP-10 (NACE2) - near white metal abrasive blast

Exterior Coating: Inorganic Zinc/ Epoxy/ Aliphatic Polyurethane System

Interior Surface preparation: SSPC-SP-5 (NACE1) - white metal abrasive blast

Interior Lining: 100% reactive solids, high performance, amine adduct cured Epoxy Lining designed to resist wet solids impact.



10. Secondary Containment

UCC has the capacity to install sectional pre fabricated containment floor and walls to fit in restricted places. Meets all secondary containment regulations.



Including installation of FRP platform, the retaining wall and the placing of the secondary containment tank.



11. FRP (Fiberglass Reinforced Plastics)

Ultimate Corrosion Control are experts in Fiberglass tank inspection, repair and field erection of tank sections. The challenging reality of working with Fiberglass repair, fitting installation and field erection in the field are many including:

- Environmental containment of grinding dust, styrene vapors and confined space entry
- Trained crews that master hand layup techniques



- Special rigging situations of tank parts.
- Specialized equipment and expertise in inspecting FRP vessels
- Post cure of tank to enhance the chemical resistance properties of the resin. This is especially important with storing sodium hypochlorite
- Secondary containment requirements for FRP tanks including sectional FRP panels with flexible membranes.

Specialized FRP Installation

UCC offers installation of specialized FRP parts and accessories, including custom manufactured parts. [More information...](#)

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