

Case Study: Wastewater Treatment Systems

LIFELAST, INC

Project: Lining of Concrete UNOX Basin (60,000 ft²), Distribution Tower (6,000 ft²), Wet Well (20,000 ft²) and Transfer Tunnel (500 ft long, 6 ft in diameter)
Owner: Large Northwest Pulp and Paper Company
Lining System: LifeLast 396 (currently referred to as LifeLast DuraShield 310)
Completion Date: UNOX Basin: June 1990; Distribution Tower, Wet Well, Transfer Tunnel: July 1991; Anion and Cation Demineralizers: April 2000 – July 2001.

In the early 1990's, a large Northwest pulp and paper mill was experiencing significant loss of concrete in their 60 million gallon per day wastewater treatment system as a result of corrosion. This corrosive attack was caused by sulfates natural to the system being broken down into sulfites, and hydrogen sulfide gas created as a by-product from the microbes in the system. The company chose LifeLast coating to eliminate these problems. LifeLast coating's extremely low permeability, excellent chemical resistance, great flexibility, high build characteristics and quick turnaround made it a perfect choice for this application.



60,000 ft² UNOX Basin

The concrete was sandblasted clean and then lined with 80 mils of LifeLast urethane. In fact, turnaround for the work performed in 1991 was less than 72 hours. The lining system was thoroughly inspected in November of 1998 and the results showed no loss of coating or disbondment throughout the entire structure, all 100,000+ ft² was 100% in tact.



20,000 ft² Wet Well (11/98)

Please call us today to find out how LifeLast protective coatings can help protect and add additional life to your valuable wastewater equipment.

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