



Case Study ▶

Returning Aging Assets to Efficient Performers

Private industry often runs on tight margins, leaving slim budgets for equipment upgrades and replacements when the effects of time begin to show. That's where rehabilitation using economical LifeLast products can extend the life of existing systems and return their performance levels to like-new efficiency.

DuraShield 310 passes Standard Specifications for Public Works Construction ("Greenbook") Chemical Resistance ("Pickle Jar") Tests

Case Study: Wastewater Treatment Systems

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. The corrosion was so significant that the concrete had corroded back to 1/2" aggregate in many areas. This corrosive attack was caused by microbial induced corrosion (MIC), a problem common in both industrial and municipal wastewater systems. The company chose LifeLast coating to eliminate these problems. LifeLast coating's extremely low permeability, excellent chemical resistance, high build characteristics, great flexibility and quick turnaround made it a perfect choice for this application.

The concrete was sandblasted clean and then lined with 80+ mils of LifeLast urethane. In fact, turnaround for the entire project was less than 72 hours due in large part to the DuraShield's high build properties and fast cure times. The lining system was thoroughly inspected in 2001 and the results showed no loss of coating or disbondment throughout the entire structure, all 100,000+ ft² was 100% intact.

Questions or technical assistance on your specification or project? Contact us; we're happy to help. Email us at info@LifeLast.com or call (512) 628-2112.



11-Year Inspection Sample

The Nitty Gritty

Project: KapStone Paper UNOX Basin Lining

Scope: 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: KapStone Paper (formerly Longview Fibre, a large Northwest Pulp and Paper Company), Longview, Washington

Completion Date:

UNOX Basin: June 1990;
Distribution Tower, Wet Well, Transfer, Tunnel: July 1991;
Anion and Cation Demineralizers: April 2000 – July 2001.