



## POLY-TECH INDUSTRIAL SERVICES

THE ASSET PROTECTION &  
RESTORATION SPECIALISTS

### PROJECT SUMMARY

#### Project

Poly-Tech Protective  
Coatings  
Waste Water Structures

#### Substrate

Concrete

#### Surface Preparation

Hydro Blasting (4,000 PSI)

#### System

Graco XP70  
Hychem TL5

#### HEAD OFFICE ADELAIDE

Beamark PTY LTD  
Unit 1/100 -104 Hayward Ave  
Torrensview 5031  
Tel +61 8 8346 4111  
Fax +61 8 8346 4333  
Email sales@poly-tech.com.au

[poly-tech.com.au](http://poly-tech.com.au)

## Simplot Waste Water Pit Case Study

Concrete is the most widely used construction material in large water and wastewater treatment plants. It is commonly used for large, water-holding process basins; belowgrade wet wells or holding tanks.

Restoring these structures with coatings and linings requires considering surface tensile strength, moisture content, and porosity of the concrete. The surface strength of each concrete structure can sharply affect the performance of any coating therefore careful consideration of what type of preparation method along with the correct coating system is paramount.

The above concrete waste water pit required rehabilitation as the cement binder had degraded and exposure of the surrounding aggregate was evident due to microbial attack.

Poly-tech were engaged to safely remove all surface contaminants whilst not further damaging the structure and apply a high build flexible epoxy coating TL5. The process involved detailed containment and safety practices using strict safety and product dispensing protocols.

TL5 is a chemically resistant high build epoxy coating designed for use in environments where exposure to alkali and dilute mineral acids is required. It's specifically designed to protect water assets which are subject to sulphuric acid attack caused by microbial degradation of sulphur containing amino acids in sewage. The product is designed for application at a minimum of 1mm and a maximum of 7 mm using a wet on wet spray technique, but can also be trowelled where spray application is unsuitable.

So for your next waste water project you can trust Poly-Tech's 30 Years experience to deliver the effective application of protective coatings including epoxies, polyurethanes, polyurea, methyl methacrylate (MMA) and water based coatings for various environments including water management, food manufacturing, oil & gas, marine, petrochemical and mining industries.

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