

CASE STUDY

THICKENER TANK UPGRADE

OLYMPIC DAM, AUSTRALIA



Contractor : IND Industrial Services

Date of Project : June 2022

Products / System Used :

Blast the surface to SA2.5 - SA3

Rake Arm components: Tufflon-P90 - 3000µm

Rake Arm: Tufflon-P90 - 6000µm

THE PROJECT

The contractor approached the LiquiMix team seeking a protective coating system for the Thickener Tank that could be easily applied on-site while providing long-lasting performance. The system would need to protect the steel from corrosion and chemical attack coming from the cargo, as well as protect the cargo from any contamination coming from the steel walls.

THE SOLUTION

The Rake Arm and Rake Arm Components in the thickener tank had previously been subject to high abrasive wear by the abrasive slurry. The operation of the rake arms is a mechanical movement through an abrasive cargo that is very wearing on protective coatings. The Tufflon-P90's smooth surface finish and high abrasion resistance will result in an increased service life. Therefore, Tufflon-P90, a spray polyurea elastomer, was applied to protect the asset from corrosion and abrasion.

THE RESULT

The specified protective coating system provided an expected service life of 4 years, and the solution worked efficiently and effectively and is still performing at a high quality level. The general recommendations for future projects are to use Tufflon P90's high build and abrasion-resistant characteristics to protect steel assets in the mining industry. The ease of application and speed at which polyurea can be constructed to an exceptionally high DFT makes Tufflon-P90 uniquely positioned to solve maintenance problems related to the protection of steel involved in highly abrasive mining processes.

