



IMATECH

**LEACH TANK
REPAIR - GOLD
MINING**

SUMMARY

Industry: Gold Mining

Product: Chesterton® ARC SD4i, Chesterton® ARC BX2 and Chesterton® ARC 858

Plant: Leach Tank

Location: Cracow, QLD, Australia.

Summary: Imatech received an emergency call to repair a Leach Tank.

The tank had holed out, which meant the plant was only running at 80% capacity. Imatech mobilised and started repairs 48 hours from receiving the call.

ROI: The client was up and running at full capacity within 3 days; saving significant downtime and money.



PROBLEM DESCRIPTION

The tank floor had holed out the entire way around the base, due to corrosion. This caused major problems with chemical substances leaking from the tank; leading to removal from service.

Operating Conditions

- Cyanide (240ppm)
- -53 μ slurry
- 10.5+ PH
- Oxygen added through sparges



SOLUTION



- The entire base and 1m up the sidewalls was abrasive blasted.
- A SCAT test was carried out revealing high levels of salt in steel. This was treated, bringing it down to acceptable levels to ensure longevity of coating.

SOLUTION

Surface was then re-blasted to achieve a 75µm to 120µm profile and Chesterton® ARC 858 ceramic regrading compound applied to repair major holes.



SOLUTION

- A blend of ARC BX2 (trowelable) and 30% ARC SD4i (sprayable) was mixed to produce an abrasive and chemical resistant slurry.
- This was easily trowelled around the entire 27m perimeter of the tank repairing and protecting the heavily pitted surface and providing a smooth surface to spray apply the top coating.



Trowelable Ceramic Composite

SOLUTION



A two-colour ceramic composite system was then spray applied to the entire internals of the tank.

RESULTS



As Imatech had effectively started repairing the tank 48 hours from receiving the call, the client was able to get back to service and run at full capacity within 3 days. Conducting the repair on time saved the client significant downtime and money.



CONTACT

Australia Toll Free 1800 352 228
International +61 2 8853 3000

info@imatech.com.au
imatech.com.au