

# LEACH TANK REPAIR



## CASE HISTORY

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# SUMMARY

- INDUSTRY** : Gold Mining
- PRODUCT** : ARC SD4i, ARC BX2 and 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 $\mu$  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 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 US

Let us help you find out how our products can improve your operations and save you time and money.

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