



## PIPE REPAIR BANDAGE

# METALLIFEROUS MINES

### EMERGENCY REPAIR SOLUTION FOR METALLIFEROUS MINES GOLD

Concentrator throughput was approximately 25 Million TPA and had 4 main outages per year at 12-week intervals.

Our biggest wear issues were in pipes throughout the concentrator as the slurry was very abrasive as with most mining in Grinding. Although the pipes were rubber lined and, in some cases, also ceramic lined for the high wear areas, we had the occasional pipe failure of slurry leaking from either a pipe's bend (elbow), flange or valve body.

#### SCOPE

- 450mm Slurry and coarse material piping and valve body leaks. Contained and sealed up using 100mm x 9m Rapp-it bandages.
- 600mm Tailings pipe line leaks were successfully wrapped and sealed using linatex rubber and wrapped with many rolls of the 100mm Rapp-it bandages.
- Cyclone Feed spool and coarse overflow spool repairs using 50mm x 3.6m bandages
- Many airline pipe pin hole leaks were detected at an early stage and wrapped and sealed using the smaller, 50mm x 3.6m bandages.

#### SOLUTION

Nearly all repairs above were able to be done on the run, using a wooden stake and driving it into the leaking hole to seal the leak. Cutting off the extruding piece of wooden stake allows a flat surface to commence wrapping the wet fibreglass bandage over the area is simple and when dried, it sets hard as a rock and supports the leaking area of material.

Rapp-it withstands coarse slurry and materials very well, long enough to enable planning for the right replacement. Rubber lining at time, would fail, enabling parent metal leakage. Rapp-it was used in 100mm x 4.8 and 9m length bandages for containment which proved to be very successful for timeframes of up to 12 weeks, until shutdown and spare pipes were delivered.

### RAPP-IT EMERGENCY PIPE REPAIR

*"Rapp-it has been around for many years as I have been working in Mining for the past 28 years and have used their product at every mine I have worked at from Western Australia, New South Wales and South Australia and primarily all been metalliferous mines. Rapp-it has been used in many applications across all processing plants as an enabler to continue processing until the plant is taken off line to meet a scheduled down time shutdown/maintenance day. Equipment wrapped with Rapp-It can safely be removed from service and a longer-term replacement can be executed without impacting production."*

**Gary Allen, Maintenance  
Superintendent, WA.**



**PIPE REPAIR BANDAGE**

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**400mm SLURRY PIPE CYCLONE FEED**



**200mm VALVE FLANGE**



**400NB SLURRY PIPE**



**350mm POLY DRAIN PIPE**





**PIPE REPAIR BANDAGE**

**METALLIFEROUS MINES**

**250mm CYCLONE FEED SPOOL**



**200mm SLURRY POLY LINE ELBOW**



**300mm T-PIECE REPAIR (SCREEN FINES)**



**200mm POLY REPAIR ELBOW**

