

## APPLICATION OF PIPE WRAP REPAIR TAPE, UPS BRAND

Mining Company: Angloamerican.

Division: Los Bronces.

Date: September 5th, 2011

### **Situation:**

A rupture in the duct that supplies industrial water from the neutralizing tanks to the Grinding plant was detected.

Pipe diameter: 16"

Tank height: 8 meters (approx)



## **Problem:**

The repair by welding or replacement of the section damaged required to stop the water flow and thus the water supply to the plant.

## **Solution:**

Along with the Angloamerican staff (Mr Edwin Castro and Mr Luis Moya) the affected area was repaired in field with ***“UPS Pipe wrap repair tape”*** and ***“UPS PlasSteel Twist Stick”***.



- 1.- The application took 30 minutes only.
- 2.- It was able to control immediately the water flow.
- 3.- The water supply to the plant was not stopped.
- 4.- The water pressure was lowered for only 3 minutes for the application of “UPS PlasSteel Twist Stick”.
- 5.- Finally the water leak was totally stopped.

## **Installation Procedure**

- ✓ Mechanical clearing of the area around the rupture (sandpaper, wire brush or emery) is done with the purpose to improve the adherence of the pipe wrap repair tape.
- ✓ Protective rubber gloves are worn, the portion of product is cut from the stick and is hand mixed during 2 minutes approximately.
- ✓ The PlasSteel is applied in the rupture by making a kind of plug on the damage area.
- ✓ Then the pipe wrap repair tape is submerged under water for 20 seconds so that the hardening chemical reaction can start.
- ✓ The pipe wrap repair tape is applied as a bandage around the complete pipe perimeter by making an overlap exactly on the damaged area.

## **Result**

An immediate decrease in the flow is observed and a complete sealing is achieved after a few hours (around 2 hours at 20°C). It is likely that the curing time increases at lower temperature.

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