

# SYLWRAP Case Study

## Reinforcing Welded Corners in Acid Tank

New corners welded in place during the repair of a chromic acid tank undergo reinforcement for additional sealing security in case of leaks in the welding



*New metal corners were welded to reinforce all four corners of the chromic acid tank. These corners were then encompassed with SylWrap HD Bandage*



*Patches of SylWrap HD pressed and smoothed over each corner created a watertight seal between the weld and the existing iron frame of the tank*

### Defect

The iron tank was at a factory in Argentina and was 10 metres long, 1.5 metres deep and 1.5 metres wide. It held chromic acid used in the re-chroming of piston parts for oil extraction pumps.

After years in service, the tank was suffering from corrosion which was particularly heavy in all four corners. These corners were repaired by installing welded reinforcements to the inside of the tank.

Not wanting to risk the possibility of leaks in the welding leading to a future escape of chromic acid, the factory decided to further reinforce each corner for additional sealing security.

### Solution

The factory unwound and cut a **SylWrap HD Pipe Repair Bandage** into patches, making sure not to contaminate the Bandage with dirt or grime.

These patches were activated with water and pressed and smoothed tightly up the entire length of welded reinforcement in all four corners.

SylWrap HD cured within 10 minutes to form a rock-hard shield, creating a watertight seal between each weld and the frame of the tank and covering any gaps or holes otherwise left exposed.

### Result

Whilst SylWrap HD offers good resistance against acids including sulphuric and chromic, an acid-resistant PVC covering was added as a final stage of protection for the entire tank.

The tank was put back into operation with all four corners now fully reinforced, sealed and protected from corrosion and attack.