



Valve Corrosion Protection

Case Study

OXIFREE[®]
METAL PROTECTION

Valve Corrosion Protection



Location	Harthill Reservoir
Local Environment	Reservoir Tunnel
Date	March 2016
Condition	Damp
Total Coatings	2
Substrate Type	Gate Valves
Duration	1 Day

Summary

CPC Civils were carrying out the replacement of the drain pipes at Harthill Reservoir. The original valves that protruded from the reservoir wall showed signs of heavy corrosion and deterioration and needed to be operational should the flow require arresting.

Objective

Oxifree were instructed to be a part of the maintenance work scope. The work involved applying the Oxifree coating to 2 x valve bodies in 2 separate tunnels. The objective was to protect the valve units from further corrosion by coating the structure in Oxifree TM198.

Process

The project was considered a below ground exercise, as the tunnels in which the valves was situated was approximately 5 meters & 14m retrospectively from the opening with height clearance of 1.6 meter. The project was undertaken using the Polymelt 50 unit with 15m hose and 2 x technicians.

Solution

The 2 valves were cleaned of loose debris using a wire brush and hand brush, the area was covered with a tarpaulin to keep the work area dry and prevent the material coming into contact with the silt bed. A coating of a 4-6mm of Oxifree TM198 was applied in a time frame of 6 hours. Upon departure the area was locked and sealed to prevent unauthorised access.

TM198 starts working immediately arresting existing corrosion and eliminating any further. It will provide protection for many years.

Plaque On Tunnel Wall – Built 1796



Gate Valve Before Application



After TM198 application



After TM198 application

