



AvonValley
water

Fire Hydrant Corrosion Protection Case Study

OXIFREE[®]
METAL PROTECTION

Fire Hydrant Corrosion Protection



Location	Southampton
Local Environment	Onshore / Roadside
Date	September 2014
Condition	Dry
Total Coatings	7
Substrate Type	Fire Hydrants
Duration	1 Day

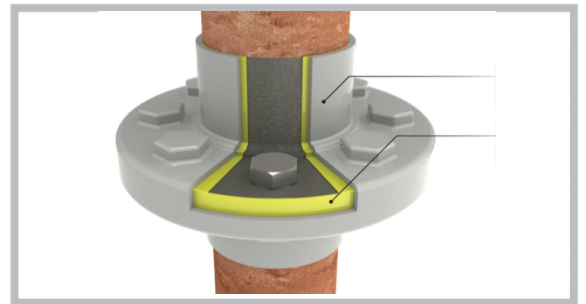
Hydrant prior to clean & application



Summary & Objective

Avon Valley Water requested Oxifree to provide a long term corrosion protection system to emergency fire hydrants around a petrochemical and chemical storage and production site within the Southampton area. The hydrants already showed signs of deterioration and a system was required to arrest further decay without shutdown of the vital components on the site safety system.

Oxifree TM198



Process

The process involved complete coating of the hydrant and pipe interface, around the pipe to completely cover and coat established predatory corrosion on the piperun. Due to the pipework running adjacent to an active roadway, traffic control had to be implemented and the project had to be completed without delay and during 'office hours' when the roadway was at its calmest. This entire application was carried out as a 'mobile coating' unit which meant all equipment and peripheries were contained and able to maneuver around the site without hindrance to other vehicular movement

Polymelt 50 Application Machine



Solution

The 7 hydrants and interfaces were coated with a 4-6mm coating of Oxifree TM198 within a 7 hour window and involved coating of the entire hydrant (approx. 1.5m tall) and providing a coating to prevent any further degradation to the weld and hydrant interface of the emergency water pipe, ensuring the Oxifree coating offers long term protection to metallic parts, but also easy access to threaded sections of the hydrant and free rotation of the valve handle should use be required.

Hydrant after TM198 application

