

# COMPLETION REPORT

Client : **Hospital**

Project Brief : **The Internal Coating of 1 No. Sectional GRP CWS Tank**

Site Address : **UK**

System Spec : **3M Scotchkote™ 165PW**  
(Formerly Known as COPON Hycote 165PW)

Film Thickness : **1000 Microns**

Completion Date : **26<sup>th</sup> November 2010**

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Covac Ref : **1021**

# SUMMARY OF WORKS

## The Brief

1 off sectional GRP potable CWS tank sized at approx:- **4m x 3m x 2m**

The tank (Asset no. 814233) is located within the roof top plant room.



## GRP – The Problem

There were signs of black spore fungi which are notorious for spreading on GRP, predominantly where there is a combination of water and air at room temperature.

The problem faced by all engineers who are responsible for the maintenance of GRP tanks is that even with regular cleaning and chlorination, bacteria such as micro-aquatic organisms will continue to multiply as they are protected by air filled cavities and fine cracks that often cannot be seen with the naked eye. There can also be numerous areas of corrosion to the steel fastenings which hold the GRP panels together.

Another common fault associated with GRP tanks is the deterioration of the mastic used between the sectional GRP panels and subsequent leaking of water. The mastic used in these joints often deteriorates rapidly following years (sometimes months) of use and this, combined with the



excessive structural movement of the plastic could have lead to the eventual leaking of the tank. The consequential loss of water through these joints could have been catastrophic.

*We, therefore, proposed the following: -*

**GRP Manual Preparation**

**Brush & Roller Application**



**These photographs show the internal surfaces of the tank having been drained of water and prior to relining work commencing. Black spore fungi can be clearly seen over much of the substrate.**





**All internal surfaces were abraded by COVAC Operatives utilizing a combination of both manual and mechanical tools, raising a suitable surface profile to promote optimum adherence of the lining system.**





**All joints were treated to prevent leaks and allowed to cure.**







The following photographs show the full application of 3M Scotchkote™ 165PW (grey).





