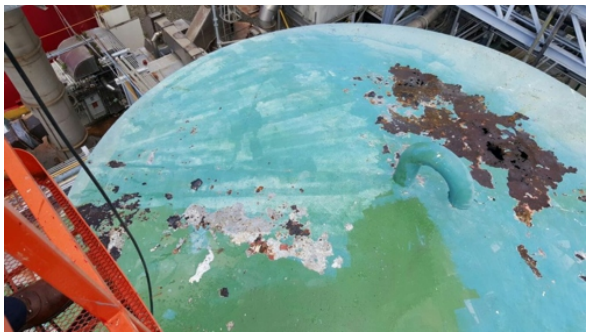
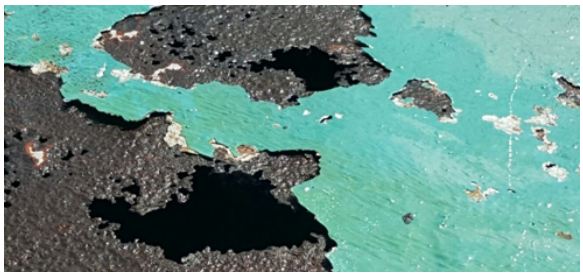
SYLWRAP Case Study

Pharmaceutical Plant Corroded Tank Repair

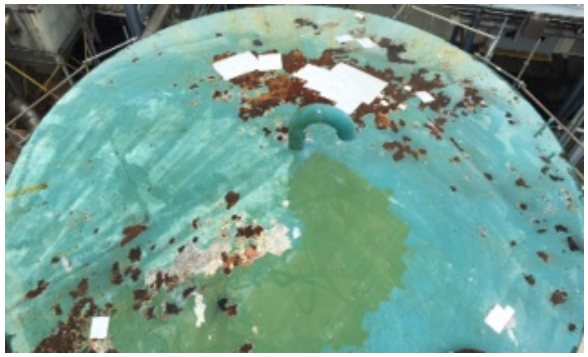
A pharmaceutical plant in Puerto Rico sought a method for repairing a badly corroded industrial tank to keep it operational until a scheduled replacement



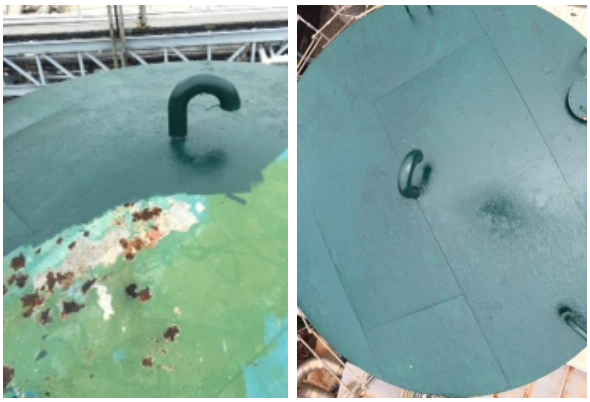
The roof of tank suffering from heavy corrosion



Cracks appeared during the preparation process prior to the application of Ceramic Brushable Green



E190 Brushable Epoxy was coated onto Fibreglass Tape to patch repair the cracks in the tank



Ceramic Brushable Green coated onto the tank to provide a surface resistant to corrosion and abrasion

Defect

The replacement was still several years away but corrosion to the top of the tank had become so bad that a repair was needed immediately.

Primary consideration was cost; the plant did not want to spend thousands of dollars repairing a tank, only for it to be condemned in the near-future.

Solution

Ceramic Brushable Green Epoxy Coating was to be painted onto the roof of the tank forming a new silicone carbide reinforced protective layer with high corrosion and abrasion resistance.

Before the coating could be applied, paint, rust and grime had to be removed. During this process, several holes appeared in the top of the tank owing to how brittle the metalwork had become.

These holes were bridged using strips of **Fibreglass Tape** soaked in **Sylmasta E190 Brushable Epoxy** and layered over each hole to build a composite patch repair.

Once each hole had been arrested, the tank was covered in three coatings of Ceramic Brushable Green with a re-coat time of four hours.

Result

Ceramic Brushable fully cured 24 hours after the final coat was applied. The entire repair took a little under two days to complete.

Complications down the line meant the scheduled replacement of the tank was suspended. Five years later and the tank was still in service, fully functional and with no signs of further corrosion.

www.sylwrap.com +44 (0)1444 831459 sales@sylmasta.com