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The Engineer's Choice

... for Solutions

## Application Profile

### Repair Don't Replace!

Unique Polymers recently completed a major chemical storage tank refurbishment contract for a major chemical company.

The internal surfaces of the tank had been corroded over 15 years of service and had become dangerously thin towards the base of the tank.

External and internal corrosion meant that steel plates had to be welded onto the surface of the tank before the entire area could be rebuilt and resurfaced.



Due to the high viscosity of the materials stored in the tank a highly abrasive resistant coating was put forward as a long term solution. The customer was expecting to extend the life cycle of the tank by another 5 years.



Unique Polymers recommended that the internal surfaces should be rebuilt where required using [UPS105 Metal Repair Paste](#) and then resurfaced with 2 coats of [UPS205 Ceramic Repair Fluid](#).



#### Application Details:

- The affected area was blast cleaned using angled grit to SA2.5 Swedish Standard, 75 micron profile All surfaces were cleaned using an approved Unique Polymers surface cleaner
- The uneven surface of the blast cleaned surface was rebuilt using [UPS105 Metal Repair Paste](#)
- The product was allowed to cure overnight at 20C using heaters in the enclosed area
- Once the product had reached its minimum over coating time it was coated with [UPS205 Ceramic Repair Fluid](#) at a minimum wet film thickness of 350 microns

The Engineer's choice for Maintenance Polymers

