

# 500 Series Heat Exchanger Vessel



32 year old heat exchange vessel



Mechanical damage with heavy pitting



Application of RS 500P a wet & rust tolerant primer



Application of RA 532 a wet tolerant glassflake filled epoxy

<b>Industry</b>	HVAC, Power Generation, Oil & Gas
<b>Date</b>	February 2012
<b>Substrate</b>	Cast Iron
<b>Products</b>	RS 500P, RA 532
<b>Environment</b>	Recirculated water

**Challenge** The unit was manufactured in 1981 and installed shortly after. Fatigue cracking was found in some welds and localised corrosion was discovered on the tube bundle guides. Inclement weather was also a factor in determining the coating to use.

**Chemco's Solution** We recommended coating with our moisture and surface tolerant epoxy RS 500P and finishing with a top coat of RA 532, a glassflake filled epoxy solvent-free system with outstanding wet tolerant properties to provide long term protection in this environment.

**Scope** Identify damaged areas and check existing specification thickness  
 Bristle blast surface area to be repaired  
 Solvent wipe and square off using masking tape  
 Application of RS 500P in one coat to a nominal DFT of 100µm  
 Application of RA 532 in one coat to a minimum DFT of 250µm

**Results** Chemco was able to carry out the repairs to the internals of the vessel within the strict timeframe provided by the client. This application will give at least 10 years of corrosion free service.