



## Case study: Fire mains reducing piece

### Long term protection against corrosion for fire mains reducing piece

#### Client

Major UK refinery.

#### Application date

March 2007.

#### Scope of work

Protection required from sea water for reducing piece forming part of a fire mains system. Without protection, severe corrosion would occur rapidly in this aggressive sea water environment.

#### Products

Corroglass 600 series.  
Plasmet ZF.  
Corrothane AP1.

#### Substrate

Carbon steel.

#### Application method

Grit blast internally and externally to ISO 8501-1 SA 2 1/2.  
Corroglass 600 series applied internally to a minimum dft of 1.5mm, carried through into flange rebates and finished flat. 100% spark tested and thickness checked.  
Two coats of Plasmet ZF applied externally  
Top gloss coat of Corrothane AP1 (colour green 14 e 53 to customer specification)

#### Coating credentials

Protecting this component using Corroglass will give outstanding long term performance, with exceptional resistance to solvent and sea water attack.

Corroglass is a high build glass flake vinyl ester resin. The reducing piece will now meet the 15-year life expectancy specified by the customer. This far exceeds the capabilities of most other coated or uncoated components used in such aggressive environments.

#### Photographs

Left: [Reducing piece prior to coating work.](#)

Middle: [Reducing piece coated internally and externally.](#)

Right: [Reducing piece complete with top coat.](#)