

CORROCOAT



Case study: Pump refurbishment and coating

Refurbishment and coating of a five-stage p10 accelerator pump.

Client

Major oil & gas operator.

Application date

August 2007.

Scope of work

Pump received in parts, following strip and wash to remove LSA scale.

Wetted areas pre and post-machined.

Coated using Corroglass 600 Series.

Assembled and checked for free rotation.

Pressure tested @ 80 psi for 30 minutes.

Products

Corroglass 600 series.

Plasmet ZF.

Corrothane AP1.

Substrate

Cast steel.

Internal coating system

Grit blasted internally to ISO 8501- Cleanliness Standard SA 2½.

Coated internally using Corroglass 600 Series to a minimum 1.25mm DFT.

Thickness checked. Spark tested at 16kv.

External coating system

Grit blasted externally to ISO 8501-1 – Cleanliness Standard SA 2.

Applied two coats of Plasmet ZF with a topcoat of Corrothane AP1.

Inspection report

Pump was received in parts following strip and wash to remove LSA. Drawings and instructions regarding reassembly were not available. Following several trial assemblies, Corrocoat's engineering team were able to identify the mode of operation for the pump.

Photographs

Left: [Pump impellers.](#)

Middle: [The five stage pump casing.](#)

Right: [Assembled pump.](#)