CORROSERVE
ENGINEERING LONGEVITY

CASE STUDY: Pumps



Protection for Pump Wetted Areas

Client

Petrochemical, UK.

The Challenge

The HSC split pump casing and cover was received from the client, an initial inspection report was carried out. During the inspection the casing and cover were found to have suffered from severse corrosion around the cutwater, discharge bend and stuffing box bores. The stationary wear ring landings had already been mechanically repaired by the client.

The Solution

Internal areas - rebated all flanges, including the split face, to prevent crevice corrosion. Prepared and masked all areas not requiring treatment. Grit blasted all the internal areas requiring coating to ISO8501-1, Sa2 ½. Applied a priming coating using Corroglass 632 to data sheet 1/11A. Built up the coating to a minimum dry film thickness of 1.25mm using Corroglass 602 to data sheet 1/10A. Thickness checked and spark tested (17Kv). External areas - Grit blasted to ISO8501 - 1 Sa2. Apply 2 coats of Plasmet ZF to data sheet 5/15A. Applied a top coat of industrial enamel to RAL5009 (Blue).

Results & Benefits

The casing has been repaired back to standard sizes at a fraction of the cost of replacing with new. The 600 series coating system will give this unit a life expectancy exceeding ten years.

Coating credentials

Corroserve has the experience and expertise to either coat from new or provide remedial coatings to process equipment. The bespoke coating systems used are determined by the operating conditions and mediums. Our coating systems have provided unrivalled levels of corrosion in the harshest environments in over 40 years.

Corroserve is a member of the Corrosioneering Group which also includes the specialist coating manufacturer, Corrocoat and our research and development division, Corrolabs. Working together, we provide the ultimate 'one-stop-shop' for our customers.