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Case study: Refurbishment and Corrosion Protection of a Cast Iron Condensate Pump Casing

Corrocoat's Belarusian partner (Corrocoat AKZ) were recently commissioned to complete the refurbishment and corrosion protection of a case iron condensate pump casing at a power station. The pump had been in operation for circa 10 years; pumping water at a temperature of 20° - 60°C, with thermal spikes up to 70°C. On inspection, it was found that the pump casing's internal surface had suffered from cavitation and erosion wear. The depth of corrosion pits was in the range of 10-15mm and the whole casing surface needed to be restored to original condition.

The client required a coating with excellent erosion and cavitation resistance and AKZ proposed the following, which was accepted. The internal surface of the pump casing was abrasive was cleaned to ISO 8501-1 Sa2 1/2 , after which Corrocoat EA was applied as a filler in the deep pockets of the eroded areas. This was followed by a top coat of Corrocoat EB at a minimum DFT of 2000µm.

As a result of the refurbishment and relining, the pump casing was restored to the required thickness and the applied coating system will provide resistance to the effect of cavitation for a long period of time. The client was extremely pleased with the outcome of the work, and with the savings achieved when compared to the cost of replacement.

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