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Case History – Water Pump Repair and Refurbishment
ThistleBond Ceramic Carbide Wearing Compound and Abrasion
Resistant Ceramic Carbide Fluid.



The ThistleBond Dutch Distributor was awarded the contract to repair and Refurbish one of the largest water pumps in the Netherlands. The entire piece of equipment was lifted from its existing station and transported to Roodhart's Head office in Rotterdam. The pump was dismantled to assess the damaged to the wet end of the pump and to the drive shaft and components.

Once the assessment was finished, Roodhart came to ThistleBond to ask for a system recommendation for the products that would ultimately improve the efficiency and performance of the pump.





The wet end of the pump had been severely eroded over a period of years, the Impeller and Volute were blast cleaned to SA 2.5 Swedish Std. Then all surfaces were cleaned using ThistleBond Universal Cleaners. A check on the severely effected areas showed heavy pitting and scarring on large areas of the Volute.

The pitting and scarring was filled using ThistleBond Ceramic Carbide Wearing Compound. Once this product had reached its minimum overcoating time, two coats of ThistleBond Super Low Friction Efficiency coating was applied to all of the surface areas of the Volute and Impeller.



ThistleBond Super Low Friction Efficiency Coating has been approved by the WRAS for contact with Potable Water. The coating has been shown in tests to increase the flow rate and efficiency of the pump and thus reduce the energy consumption of the equipment.