

# CORROCOAT



Case Study: 008

## Refurbishment of Hydrogen Cooling System

### The Industry

Power Generation

### The Challenge

Operating an electric power generator produces large amounts of heat that must be removed to maintain efficiency. The use of hydrogen is an effective way to cool the generator and allow power plant operators to produce more megawatts out of a smaller generator. The problem is, hydrogen can be dangerous so to ensure maximum safety and equipment efficiency regular maintenance of all components is vital. As part of a planned maintenance programme, CorroTech in the Czech Republic was contracted to refurbish a number of large hydrogen cooling coils.

### The Solution

Carrying out the work in its own workshops, the coils were first degreased, then high pressure water jetted, before being blast cleaned to standard Sa 2½ with a sharp-edged surface profile corresponding to Rugotest No. 3, BN9a. The external surfaces, some 1500²m in all, were then coated with Polyglass VE to a dft of 1500 microns.

### Results & Benefits

Polyglass VE – a two-pack, cold cured epoxy vinyl ester material is ideal for this application, offering high resistance to chemical attack at the elevated temperatures found in a cooling tank. The contract was completed on time and within budget. The quality of the finish exceeded the client's expectations and they anticipate placing further contract in the near future.

### Credentials

With over 40 years of experience of solving corrosion issues in the power industry, our customers' know they can put their trust into the capabilities of Corrocoat products, as they negate the effects of corrosion and abrasion damage on a wide range of Pumps, Pipes, Valves, Bunds and Tanks.

CorroTech in the Czech Republic continues to win major contracts in a variety of markets – their experience, expertise and the use of proven Corrocoat products has proved to be deciding factors in clinching regular orders.