CORROCOAT

Case study: **XT & VEF for an absorber**

High temperature protection in a desulphurisation plant.

Client
Power industry, Czech Republic.

Application date
May 2004.

Scope of work
An internal inspection of the coating used on an absorber in a large CHP station was initially carried out. The inspection highlighted the coating system that had been in place for just 3 years was suffering severe breakdown – especially in the upper areas where the working temperature is close to 200°C. The project scope then was agreed to be the complete refurbishment of the internal coating of the absorber.

Products
Corrothane XT in the upper higher temperature areas and Polyglass VEF in the remainder.

Substrate
Steel fabrication.

Coating system
- Grit blast internally to SA 2½.
- Apply Corrothane XT to upper 170m^2, and Polyglass VEF in the lower 400m^2 to a minimum dft of 1.25mm.
- Spark tested and thickness checked 100% of the applied coating to ensure no holidays.

Coating credentials
Following the early failure of the initial coating system (a European manufactured Epoxy coating), the customer was eager to find an alternative coating system that could withstand the service requirements – and additionally give extended service life without maintenance.

Corrothane XT is a cold cured vinyl ester and polyurethane hybrid developed for coating steel where high temperature resistance is required – and Corrocoat seemed the obvious choice for the high temperature sections.

Reports from the power station remain positive, and as a result of no breakdown whatsoever in the first year of operation with the Corrocoat system, Corrocoat have been awarded the refurbishment project of another similar absorber tower.

Corrocoat is confident that the coating system will continue to provide the required protection for many years to come – and will audit regularly to assess.

Photographs
Left: View of the exterior of the absorber tower – above
Right: View of the exterior of the absorber tower – below

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