



Ardley EFW Oxfordshire, UK

CUSTOMER

Tata Steel & Clugston

SECTOR

Energy

DATE

4th August 2014

PRODUCTS

- Proofex Engage
- Conbextra GP/HF
- Nitoflor Hardtop

THE PROJECT

Construction of the state of the art Energy from Waste (EfW) facility began in December 2011. Ardley EfW will process around 300,000 tonnes of non-hazardous, post-recycling and residual waste. The facility will take about 3 years to complete and commission, becoming fully operational in the second half of 2014.

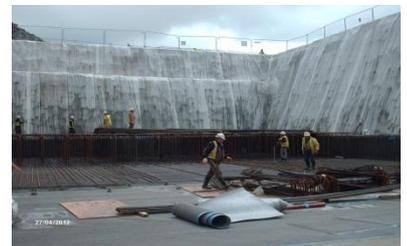
Given the type of construction, including a 12m basement built over an Artesian Well, the scheme offered a host of challenges including requirements for waterproofing, grouting, flooring and sealant work.

THE SOLUTION

Fosroc worked alongside Tata Projects to ensure specification for the scheme was robust and crucially buildable by the nominated contractor Clugston. The basement offered a challenge not only because of the extreme water pressure created by the Artesian Well but also because of the ammonium salts in the ground. Proofex Engage was selected for the task and provided a robust and chemically resistant barrier for the basement. Supercast SW20 was also used in the construction joints to reinforce the floor to wall joint. Conbextra GP and HF were specified and used for base plate grouting, the battery storage floor, which is exposed to a high level of possible chemical attack, was coated with Nitocote EN901 to protect against acid spillage, and the areas of concrete floor that will be heavily trafficked were finished with Nitoflor Hardtop.

THE BENEFITS

Fosroc offer a wide array of construction solutions, therefore the specification was a great opportunity to showcase our full product range. From waterproofing deep in the basement to grouting crane bases, Fosroc were able to specify a 'total solution' package to ensure Tata could feel confident with the specification proposed. Further to this Fosroc carried out a training session with the installer, Clugston. The training ensured that the contractor was confident not only in the specification and details drawn for the project, but also felt at ease when installing the products. This approach to the scheme ensured complete project integrity from Fosroc through to the client.



Clugston were trained to install Proofex Engage



12m basement offered challenges with Artesian Well.



Full product specification designed with Tata