

## Project Profile - Utilities



### PROJECT

**Belvedere Riverside Energy from Waste Facility - Link Bridge**

### SUMMARY

Providing additional cover and waterproofing to precast, prestressed, bridge beams.

### PRODUCTS

**Cementitious Coating 851**

### CLIENT

Royal Haskoning

### CONTRACTOR

Concrete Repairs Ltd

### BACKGROUND ►

**Starting in 2011, the Riverside Energy from Waste (EFW) Facility at Belvedere will process 585,000 tonnes of residual waste annually to generate electricity for 66,000 homes in London.**

To minimise congestion on the roads, the waste will be transported by barge along the River Thames to a newly constructed wharf. To ensure the design life of the new link bridge is achieved, consultants, Royal Haskoning, required enhancement of the 35mm cover to the prestressing strands in the precast beams which support the main deck over the river.

### THE SOLUTION ►

Royal Haskoning specified 2mm of **Cementitious Coating 851**, which is completely impermeable to water under 10 bar hydrostatic pressure (100 metre head of water) and gives the equivalent of 100mm of good quality concrete cover. In order to blend in, the colour of the **851** was matched to that of the parent concrete. A total of 91 beams were coated by Concrete Repairs Ltd at Anchor Bay Wharf in Erith where they were stored, following manufacture by Tarmac at their Taunton works, prior to being transported to site by barge.



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