

Midanki Dam, Syria

Case study 2003

Focus products: Intercrete® 4842

Client: Al Assi Basin

Contractor: BMC Syria

Summary: Waterproofing of concrete and construction joints on 6,000m² concrete control tower

Background

During construction of this dam on the Ifrin River in Northern Syria, it was found that the concrete used in the Control Tower was weaker than originally specified and therefore more vulnerable to water ingress. Moreover, the construction joints were not watertight and urgent work was needed to rectify both problems before the dam could be completed and commissioned.

The solution

It was decided that the best solution would be to re-waterproof the construction joints and treat the weak concrete simultaneously with a single, versatile product that could be sprayed over both. The brief called for a coating able to resist immersion in water at 7 bar pressure. Intercrete 4842 far exceeded the requirements, as the recommended 2mm DFT is able to resist 10 bar water pressure. It is a cementitious modified, polymer coating which maintains its elastomeric properties even under immersed conditions, and is ideally suited for waterproofing and protecting concrete structures exhibiting cracking where further movement can be expected.

