

Chai Wan Fresh Water Reservoir, Hong Kong



In February 2003, the maintenance work of Chai Wan Fresh Water Service Reservoir commenced. A self-compacting concrete was designed in which a Superplasticizer additive is added and no vibration is required. However, the result was not satisfactory, the concrete surface was full of large and small blowholes and not dense enough. Accordingly, Formtex® was introduced to solve the problem.

Figure 1: The construction site of Water Service Reservoir.

Process



Figure 2. A trial for installation of Formtex® (middle).

A trial was carried out in March 2003 to verify the effect of Formtex® CPF liner. The result was very obvious and impressive. The number of blowholes was greatly reduced and a dense concrete surface was achieved.

Follow-up



Figure 3. Concrete surface achieved with Formtex® (left) and without Formtex® (right).

In view of the outstanding performance of Formtex® that improved the quality of the concrete surface, Formtex® was used in the casting of all the remaining concrete.