

Yantin Container Terminal Phase III, China



Figure 1. The trial beam, with three different CPF liners used.

In March 2003, the construction of quays for Yantin Container Terminal Phase III commenced in China. Controlled Permeability Formwork (CPF) was used in Phase II of the project and also specified for the casting of quays in the current Phase III project. The client required a dense concrete where the structure is constantly exposed to salt water or salt-water spray.

Process

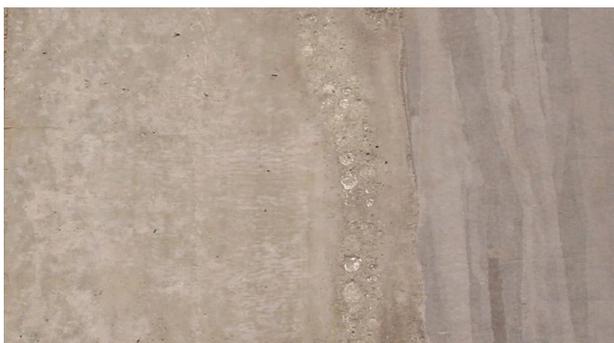


Figure 2. Concrete surface achieved without formliner (left) and with Formtex® (right).

The contractor, CHEC, carried out a trial in December 2002 to determine the effect of different CPF liners. Three different CPF liners were glued to the same metal formwork under the same conditions. Cores were drilled in the concrete cast with different CPF liners and tested at an independent laboratory to examine their effects.

Follow-up



Figure 3. Concrete core sample is drilled for testing.

The concrete cast with Formtex® was smooth, dense and without blowholes. Together with a satisfactory result on the independent laboratory testing, an initial order for 3,000 m² of Formtex® was placed.