

Project Spotlight



COSCO Shipping Kizad, Abu Dhabi, UAE

Warehouse – SFRC ground bearing Freeplan® 'jointless' floor slab

COSCO Shipping, the largest integrated shipping enterprise in the world, has partnered with Abu Dhabi Ports to create a regional trading hub and Middle East gateway for the Belt and Road initiative in Khalifa Port, United Arab Emirates.

As part of the development was the requirement for a 50,650m² warehouse that was to be used as short-term storage for de-consolidated cargo.

COSCO Shipping and the general contractor, China Harbour Engineering Company, were previously unfamiliar with Twintec's large bay, steel fibre reinforced concrete floor slabs with no saw-cut joints, but recognised that the quality deliverable by Twintec combined with accelerated programme would have many advantages for the short and long term. The outstanding track record of Twintec in the UAE and worldwide, coupled with the total offer concept (Design-Build-Guarantee) from Twintec provided all parties with the assurances that Twintec would deliver to meet the project requirements.

The project was scheduled to start when the UAE government introduced strict lockdown measures to combat the Covid-19 outbreak.

China Harbour Engineering Company together with the Twintec team introduced stringent measures to ensure personnel safety alongside a commitment to complete the construction of the concrete floor slab.

The introduction of a national sterilisation programme in its drive to combat the spread of Coronavirus by the UAE and restrictions on people movement (including

Project Data

End User:	COSCO Shipping
Contractor:	China Harbour Engineering Company
Slab Depth:	150mm
M ² :	50,650m ²
Completion Date:	June 2020

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concrete deliveries) from 8pm to 6am presented further challenges - specifically when your contracting operation normally continues around the clock. This was an additional issue during May and June as daily temperatures rise to in excess of 40°C and concreting works would generally take place at night.

A collaborative approach between all parties, including concrete supplier Abu Dhabi Concrete, agreed programme and output modifications with a clear focus on maintaining safety and quality of workmanship under the conditions of operation, resulting in a high quality Twintec Freeplan® 'jointless' slab

Twintec Freeplan® Advantages

- Improved life cost
- Improved business efficiency
- Reduced maintenance time & cost
- Faster production time
- Safer for MHE operators

Critical Success Factors

People. The most valuable resource in any organisation. A willingness of employees to adapt in addition to knowledge, skill and experience is key, combined with an informed proactive management able to support staff and maintain workers' motivation under extremely demanding circumstances.

Process. Successful site execution is built around robust processes and practices. Fast paced decision making and execution to adapt those processes proved key to maintaining work output and customer satisfaction in a safe manner.

Partners. Communication and commitment of all stakeholders within the business working together as partners to achieve a common goal.

The professional team from Twintec worked closely with China Harbour on all aspects of the project from design through execution to completion of the project to ensure the project met the client's requirements. The finished floor was completed within the agreed timescales and is an excellent example of high-quality workmanship meeting all predefined requirements.



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