

Project Spotlight



Maersk Logistics Park Jeddah Islamic Port, Saudi Arabia

SFRC ground bearing Freeplan® 'jointless' floor slab

Twintec Saudi LLC Completes High-Performance Concrete Flooring for MAERSK Logistics Park at Jeddah Islamic Port.

Twintec Saudi LLC is proud to announce the successful completion of our latest project at the MAERSK Logistics Park at Jeddah Islamic Port, Jeddah Saudi Arabia. This accomplishment reinforces our commitment to delivering high-quality, durable, and cost-effective concrete flooring solutions tailored to the needs of global logistics leaders.

The MAERSK Logistics Park is a state-of-the-art facility designed to optimize supply chain efficiency and enhance trade flow within the region. As part of this prestigious project, Twintec Saudi LLC was entrusted with designing and constructing an advanced jointless concrete flooring system to meet the rigorous demands of modern logistics operations.

Twintec's scope of work on the project consists design and build of flooring works using Three (3) types of Steel Fibre Reinforced Concrete (SFRC) flooring solutions such as below.

■ Freeplan®

'JOINTLESS'SFRC GROUND BEARING FLOOR SLAB

■ Twinplan®

'JOINTLESS' DEFINED MOVEMENT SFRC FLOOR SLAB

■ Freeplan XT®

'JOINTLESS' SFRC EXTERNAL YARD

The completion of this project marks another milestone for Twintec Saudi LLC as a leader in industrial concrete flooring solutions in the Kingdom of Saudi Arabia. Our expertise in delivering high-performance flooring systems ensures that logistics giants like MAERSK can operate efficiently with minimized downtime and maintenance.



Project Data

Owner: MAERSK

Consultant: SE Consultant

JLL, HCO

Main Contractor: Zamil Construction

Fibre Type: 4D/3D Dramix BGE 80/60

Total Area: 142,680m²

Flatness: TR34 4th Edition 2013

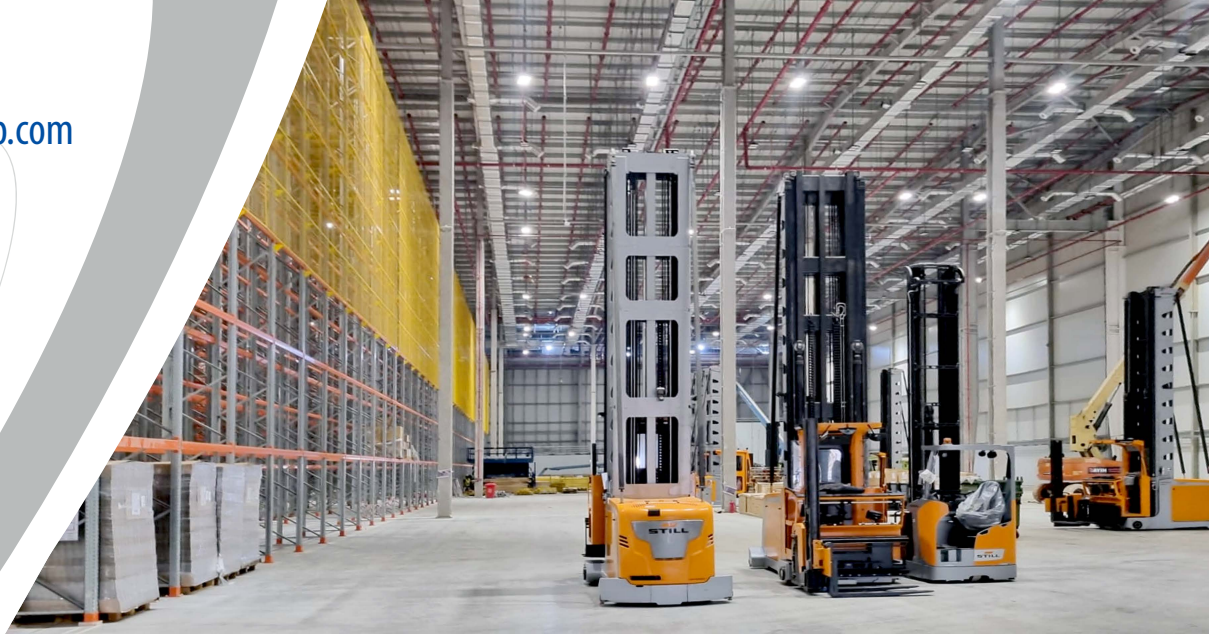
DM1, FM2 & FM3

Floor Type: Freeplan®, Twinplan®

Freeplan XT®

Completion Date: March 2024

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Challenges:

Very Narrow Aisle (VNA)

In very-narrow-aisle (VNA) warehouses, forklifts travel 6-foot wide aisles between storage racks with the aid of rack-mounted rails or a wire guidance system embedded in the floor. While moving down the aisles, these lift trucks can raise their forks to retrieve or place products at various levels. For these forklifts to perform as intended, defined traffic floors must be extraordinarily flat and level. Since the lift truck travels the same route over and over, the smoothness of the wheel paths in DM1 aisles becomes extremely important. Twintec delivered Twinplan® with large panel floors that meet the requirements for high tolerance floor flatness, levelness, and operational demands in Very Narrow Aisles (VNA) with mechanical handling equipment that runs on defined movement floors and fixed pathways. Twinplan® saves significant costs as remedial floor grinding is not necessary to achieve the required tolerance to ensure safe and efficient MHE operations along vertically designed high-level racking systems.

Weather & Other Subcontractors:

During the project execution, the Saudi weather was in a transition period, during which various rainfalls were accounted for. The roof drainage system was not fixed, and many water leaks have occurred during this season. Twintec ensured that the pouring sequence and locations to be executed were carefully planned to avoid water leakage that could affect the integrity of the slab.

This also involves strategic collaboration with stakeholders along with many other subcontractors involving aligning schedules and integrating various technical aspects of the flooring installation that interrelate with their scope of work. Effective communication and project management were key in maintaining efficiency, avoiding delays, and ensuring high-quality results that met MAERSK's operational standards.



MAERSK



Steel Fiber Reinforced Concrete Flooring Benefits

- Custom-Engineered Jointless Concrete Flooring:
Designed to provide superior durability and reduced maintenance costs.
- High Load-Bearing Capacity:
Engineered to withstand heavy-duty warehouse operations, ensuring seamless movement of automated and manual material handling equipment.
- Precision and Flatness:
Delivered within strict tolerance levels to support efficient racking and storage systems.
- Sustainable & Cost-Effective Flooring Solutions:
Optimized for long-term performance, reducing overall lifecycle costs.



Contact the Twintec Saudi LLC business team for further information:

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