

Coppel's racks and forklifts are carried reliably and sustainably



Retail giant Coppel constructed a 47,000 m², heavy-use distribution center in Texcoco, Mexico, using SigmaSlab® concrete reinforcement technology - a first for Latin America and only the second worldwide. The technology, combining Dramix® steel fibers with CCL's post-tensioning strands, produced a high-performance floor with substantial time and cost savings and eco-friendly advantages.

The challenge

Due to its high ceilings accommodating 12m industrial racks and the constant movement of heavily loaded forklifts along the narrow aisles, the technical requirements for the floor were very demanding. It had to be incredibly strong, highly durable, and perfectly level with minimal joints while also meeting low carbon footprint and cost-efficiency goals within a tight construction schedule.

The solution

Main contractor Rinol used the innovative SigmaSlab® concrete reinforcement technology for this distribution center floor. It consists of perfectly level, seamless concrete slabs of size 100m x 100m. The Dramix® 4D steel fibers ensure the high structural stability and durability of the floor, while the post-tensioning strands take up the shrinkage and temperature stresses.

By reducing the amount of steel and concrete needed, as well as eliminating the need for rebar, the use of SigmaSlab® technology sped up construction time, reduced overall costs, and cut the carbon footprint of the project by 25%.

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Project Specifications

Project type: Distribution center
Application: Seamless floor
Product: SigmaSlab®

Partners

General contractor: Rinol
Owner: Coppel
Concrete plant: Holcim

