

JCB India



JCB India, a manufacturer of earthmoving and construction equipment, required a heavy-duty, jointless floor for their export hub in Halol GIDC, Gujarat. The facility spans 35,000 m² and needed to be designed to withstand heavy loads of up to 40 ton axle load, gantry crane column load, and machine loads. The challenge was to minimize floor damage starting at the joints.

The challenge

The floor needed to be designed to withstand heavy loads, therefore there was a need to eliminate control joints at every 4m. This required a jointless floor that could withstand the heavy loads without cracking or damage.

The solution

The proposed solution was a jointless floor that was constructed using Dramix® 3D 80/60 BG steel fibers, M35 concrete, and AR1class hardener from ROCLAND PVT LTD. The panel size of the floor was 23 meters by 23 meters, and Permaban Ltd's armored joints "wave" and "alpha" joints were used to ensure

the best outcome of the floor. This solution successfully eliminated all control joints, resulting in a robust, jointless floor that met the client's requirements. The floor has been performing well since installation, and the customer has even upgraded to a seamless flooring solution at another location.

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Project Specifications

Project Type: Manufacturing facility
Application: Jointless floor
Product: Dramix® 3D 80/ 60 BG

Partners

General contractor:
Larsen & Toubro Limited, ECC division
Engineering office: MottMacdonald
Flooring contractor: Avcon Technics Pvt.Ltd

