

Goa Shipyard



Goa Shipyard, an old ship repair and building facility, required modernization for its existing structure. The project aimed to upgrade the industrial shed to enhance its functionality and increase its lifespan, which involved a long-lasting industrial floor that could handle its 24/7 traffic.



The challenge

The facility was located near marine water, making it difficult to store conventional rebar at the site due to space constraints. Additionally, rusting of steel reinforcement was a significant challenge. The loads acting on the floor were also critical, requiring a design solution that met the project's requirements.

The solution

For the requirements of this industrial floor, we designed a saw-cut floor solution using 3D 80/60 BG Dramix® steel fiber with a dosage of 20 to 22 Kg per cubic meter for floor thicknesses of 200mm and 250mm. Corrosion of the fibers at the surface may cause discolorations but does not affect the mechanical properties

of the steel fibers. This industrial floor will be able to handle the Goa Shipyard's 24/7 traffic without having delayed construction time due to storage constraints.

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Project Specifications

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

Partners

General contractor: Simplex, JMC
Engineering office: Royal Haskoning DHV, Mumbai

