



CASE STUDY

Military object

PROJECT OVERVIEW

Customer: U.S. Army Corps of Engineers, IDF

General Contractor: Nibor

Product: PrimX Outdoor pavement

Usage: Military object

Address: Israel

Casted: August, 2015

Area: 12 000 m² (129 000 ft²)

Slab thickness: 200 mm (7 in)

CO₂ savings: 168 330 kg (371 104 lb)

CUSTOMER

When the U.S. Army Corps of Engineers decided to build a test road for heavy tanks in Israel, they were looking for a partner capable of creating a tough and long lasting surface. In addition, they needed to solve the perennial problem of steel tracks damaging concrete joints. The task was not easy, as tanks are some of the heaviest vehicles with a weight of 60 to 80 tons and sharp steel tracks prone to creating problems for any surface they drive on.

CHALLENGE

The project was managed by the U.S. Army Corps of Engineers and IDF, with a Florida-based general contractor, Nibor. They chose PrimX Outdoor – the only seamless concrete pavement system in the world.

The customer had its own specifications, but there were additional and special concerns, including resistance to hard abrasion and reduction to joint damage from steel tracks.



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SOLUTION

Primekss offered its own solution – a very hard and completely jointless surface. This was also the first time the Israeli Defense Forces used concrete pavement solution with steel fiber-only reinforcement.

To create ultimate abrasion resistance, extremely hard aggregates were used in very strong, crack- and joint-free steel fiber reinforced concrete. The special additives eliminate shrinkage, allowing PrimX pavement to be produced joint-free and without saw-cuts – eliminating the weak spots that get easily damaged with turning tracks.

“We created a solution for the tank road and drive test field that is durable and abrasion resistant. That is very important with sliding and drifting hard steel tracks. They take any unevenness on the surface and pull and push with huge force, and the concrete just gets damaged. A jointless floor solution with abrasion resistant, hard concrete makes concrete pavement for heavy vehicles last much longer”

says Janis Oslejs, CEO of Primekss, adding

“The creation of the perfect tank pavement is even more important, because if the surface gets damaged, there are no good and easy methods for repairing it that would withstand heavy loads”.



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