

OPTIPAVE™ PAVEMENT SYSTEM



**1 INCREASE
SERVICE LIFE**

**2 REDUCE
MAINTENANCE**

**3 MINIMIZE CURL &
STRESSES**

**4 ELIMINATE
DOWELS & REBAR**

**5 RESOURCE
EFFICIENCY**

FORTA® is now offering an advanced engineering system for concrete pavements. The OptiPave System provides the most cost-effective and sustainable concrete design to compete with asphalt paving. Utilizing proven proprietary tools and technologies that optimize pavement design, the OptiPave System reduces construction and maintenance costs while maximizing performance and service life.

RUTA 60 - CHILE

Traffic: 189M ESALs
9.0in/230mm Thick
Macrosynthetic Fibers
6ft/1.8m Joint Spacing



SHORT PANEL JOINTING PATTERN, 5-8 FT
(1.5-2.4 M)

We will analyze the specific needs of your project and optimize the pavement geometry to provide the most environmentally responsible, long lasting and economically competitive concrete pavement.



Traffic: 4M ESALs
 5.5in/140mm Thick
 580psi Flexural Strength
 FORTA-FERRO®
 6ft/1.8m Joint Spacing



MILITARY ROADWAY - OK

Traffic: Military Vehicles
 7.0in/175mm Thick
 580psi Flexural Strength
 FORTA-FERRO®
 6ft/1.8m Joint Spacing

INCREASED SERVICE LIFE AT A LOWER COST OF OWNERSHIP THAN ASPHALT

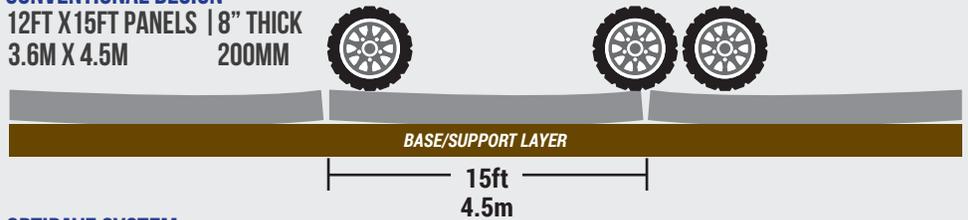
While the need for a cost-competitive concrete pavement alternative to asphalt paving drives growth of the OptiPave™ System in North America, this optimized pavement design boasts 20+ years of proven performance in the South American market where it was first developed. We also have projects in the United States that have been in service for more than 6+ years with excellent performance. Contact us to set up an in person or virtual meeting to learn how you can take advantage of the OptiPave System.

LESS OUT-OF-JOINT CRACKING

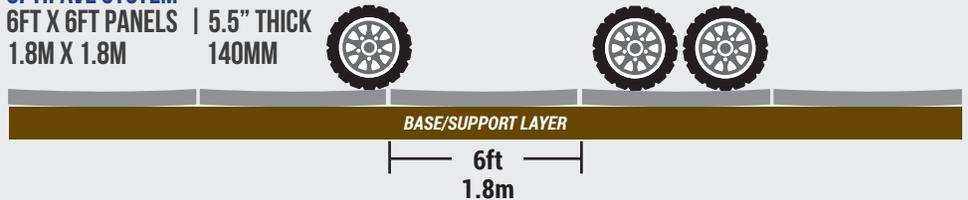
OptiPave design software accurately predicts performance over time. A shortened panel reduces the amount of curl and prevents both edges of the panel from being loaded simultaneously.

This optimized design permits significant reduction in thickness all while providing owners with a durable concrete pavement that requires minimal maintenance.

CONVENTIONAL DESIGN
 12FT X 15FT PANELS | 8" THICK
 3.6M X 4.5M 200MM

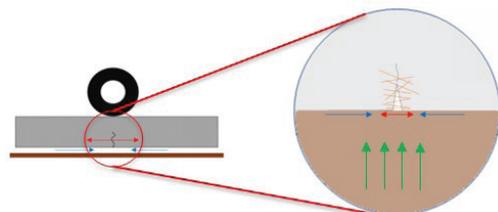


OPTIPAVE SYSTEM
 6FT X 6FT PANELS | 5.5" THICK
 1.8M X 1.8M 140MM



FORTA-FERRO® IN THE OPTIPAVE SYSTEM

In the OptiPave System, FORTA-FERRO provides the residual strength required to restrain bottom-up cracks. The fibers act in tandem with the subgrade support, which provides confinement and friction while the fibers restrict the crack opening to redistribute forces. This heavy-duty macrosynthetic fiber can reduce pavement thickness, offers improved impact, abrasion resistance and provides maximum long-term durability; extending beyond the pavements design life.



REINFORCEMENT THROUGHOUT →

FORTA-FERRO is an easy to finish, color-blended macrosynthetic fiber made of 100% virgin copolymer/polypropylene. It's twisted-bundle monofilament and fibrillated fibers yield a high-performance concrete reinforcement.