

Sport Court® PrimePlay™

Safety Study Results

SPORT COURT®

Play Safer. Perform Better. PrimePlay™ Delivers Proven Results

A study conducted at the University of Calgary's Human Performance Lab evaluated male and female athletes performing common basketball movements—sprinting, side shuffling, running, and turning— to look at the differences in how the body reacts when played on concrete versus Sport Court's PrimePlay surface.

Researchers used Xsens motion capture technology with body-mounted sensors to collect 3D biomechanical data on movement and impact forces. The results showed clear safety advantages with PrimePlay, and with all participants reporting positive performance feedback.

Running and Sprinting



"The Sport Court® surface reduced sacrum vibration amplitude and damping, suggesting enhanced cushioning that may decrease lower-back shock exposure compared to the concrete surface."

significant impact on the sacrum with a **17%** reduction in acceleration amplitude

Sprinting speed increased by **2%** on the Sport Court surface indicating a positive trend of increasing sprint speed

User Feedback

"During the jump movement, participants rated the Sport Court surface as having greater traction."

"Participants rated the Sport Court surface as being softer, having higher grip/traction, and having greater cushioning comfort, as well as having an overall higher surface rating compared to the Concrete."

"During the v-cut movement, participants rated their performance and traction greater on the Sport Court surface compared to the Concrete."

"During the side shuffle, participants rated the grip and their performance higher on the Sport Court surface compared to the Concrete."

"During the running movement, participants rated the traction and overall performance significantly higher on the Sport Court surface compared to the Concrete."

"During the sprinting movement, participants rated the traction and their performance significantly higher on the Sport Court surface compared to the Concrete."

Overall, participants found they had greater traction, and performance on the Sport Court surface, rating it as being more comfortable, softer and an overall better surface.

Side Shuffle



All Sport Court surfaces feature Lateral Forgiveness™ which allows for slight movement between tiles to absorb the transition forces generated from shifts in direction. The study found that the Sport Court surface helped the body better absorb and reduce vibration during a demanding lateral movement.

A higher damping coefficient will reduce the amplitude and duration of the surface vibrations, which means that less of these vibrations will transfer to the body.

The PrimePlay surface resulted in increasing the damping coefficient of the tibia by

19.2%,

the calf by

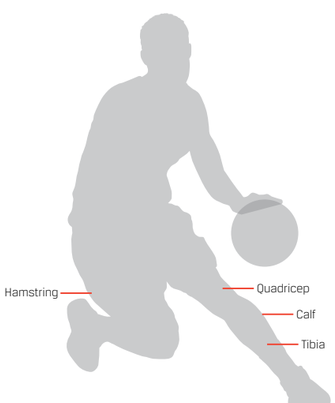
21.1%,

the quadriceps by

30.1%,

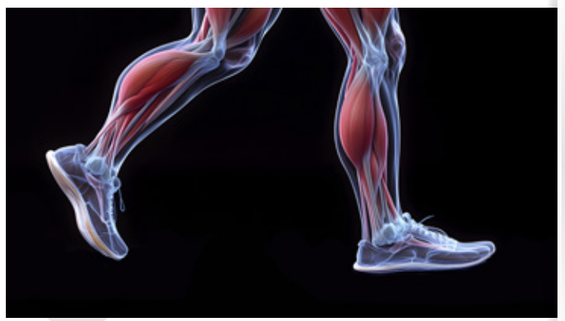
and a trend for the hamstrings by

14.4%









180° TURN

Compared to concrete the Sport Court PrimePlay helped the tibia and calf muscles absorb vibration more effectively during turns. This means the surface is likely **safer and more performance-friendly** during sharp directional changes.

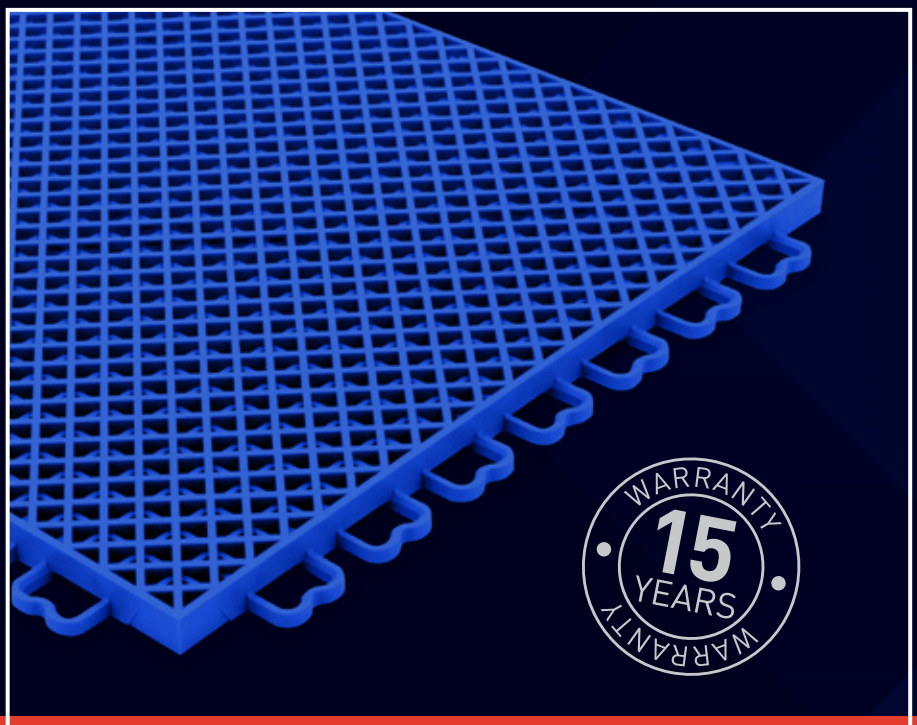
The muscles dampened (absorbed and reduced) vibration more effectively on the Sport Court PrimePlay with a

23% improvement on the tibia

31% improvement on the calf

AVAILABLE COLORS

Bright Blue	Burgundy	Dark Blue	Green	Bright Red	Sand	Gray	Steel Blue	Kiwi	Purple
Mustard	Titanium	Pearl Orange	Tennis Blue	Evergreen	Terracotta	Beige	Black	Granite	



Size	12"x12"x1/2'
Weight	.75 lbs.
Head Impact ASTM 1292	21.4" impact protection height
Dry / Wet Traction	103/91 BPN
Ball Rebound DIN 18032	99% ball bounce
Shock Absorption EN 14808	14%
Lateral Forgiveness	+0.065"/0 (1.65 mm/0 mm)
Material	High Impact Polypropylene Copolymer
Quality	ISO 9001 / ISO 14001
Recycling	100% Recyclable
Country	USA Made
Warranty	15-year limited

PrimePlay™

PrimePlay's superior traction, durability, ball response, and safety make it the ideal court for both professional competitions and backyard games. Engineered with patented WetTrax technology, PrimePlay allows for play after rain without waiting for the court to dry.* Its specialty grid design reduces water retention and, combined with a superior UV-resistant formula, ensures the court remains in prime condition for over 15 years without resurfacing.

PrimePlay reduces impact and injury risks, making it safer than traditional outdoor surfaces, and a great option for your family or facilities.

*Use athletic shoes. Do not use barefoot. Make an effort to clear court of excess dew and water

SPORT COURT®

Build your official court at sportcourt.com

a company of Gerflor®