



# Willows at Grande Dunes

Myrtle Beach, SC, USA



## Project Information

**Project category:**  
Sports Facilities

**Year of construction:**  
2023

**Year of MAPEI involvement:**  
2023

**MAPEI coordinator:**  
Jonathon Morton

**Project owner:**  
Willows at Grande Dunes

**General contractor:**  
Sport Court Carolina

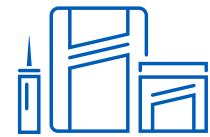
**Installer:**  
Sport Court Carolina

**Project size:**  
64 cubic yards (48.9 m<sup>3</sup>) of concrete that were manufactured with *Mapecrete System* products; 4,000 square feet (372 m<sup>2</sup>) of *Mapecoat TNS Professional System* products that were used



## Project Overview

Two new pickleball courts were constructed using products from MAPEI's Admixtures for Concrete and Sports Flooring lines. The courts were specified for the new apartment complex Willows at Grande Dunes. The base specification was changed to *Mapecrete System* from a post-tension concrete system.



## Products Used

- Dynamon® SX***
- Expancrete***
- Mapecoat™ TNS Base Coat Binder***
- Mapecoat TNS Finish 3***
- Mapecoat TNS Line Seal***
- Mapecoat TNS Line Tex***
- Mapecoat TNS Primer EPW***
- Mapecrete® Film***
- Mapecure™ SRA 27***
- Mapefibre ST 42***



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## The pursuit of pickleball prowess at Willows at Grande Dunes

In the pursuit of creating unparalleled recreational amenities, the owners of Willows at Grande Dunes, a prominent apartment complex in Myrtle Beach, South Carolina, envisioned the construction of two state-of-the-art pickleball courts. What started as a standard project took a transformative turn when the stakeholders discovered the exceptional benefits that MAPEI's admixtures and sports-flooring solutions offer.

### Redefining recreational spaces

Recognizing the growing popularity of pickleball and the desire to provide residents with top-notch recreational facilities, Willows at Grande Dunes embarked on a project to construct two new pickleball courts. This undertaking aimed not only to meet the demand for recreational amenities, but also to elevate the overall living experience for the community.

In the early stages of the project, a post-tension concrete system had been initially specified for the construction of the pickleball courts. However, during the planning phase, the owners and architects became aware of MAPEI's comprehensive range of admixtures – specifically, *Mapecrete* System. Recognizing the potential advantages and superior quality that MAPEI offers, the owners and architects decided to reassess their initial specifications.

### The decision to include MAPEI admixtures

Several factors contributed to the decision to switch from the initially specified post-tension concrete system to MAPEI's *Mapecrete* System:

- **Proven performance:** MAPEI's admixture products, known for their exceptional performance and durability, have a global track record of success in various construction applications. The owners and architects were swayed by the proven results and reliability that are associated with MAPEI's products.

- **Customizable solutions:** MAPEI's *Mapecrete* System offered a level of customization that aligned seamlessly with the project's specific requirements. The ability to tailor the admixtures to the unique demands of pickleball-court construction was a key factor in the decision-making process. The fact that the admixtures contain less CO<sub>2</sub> and contain no metal also proved to be attractive. In addition, as the admixtures are added into the mix, they are less labor-intensive than a traditional post-tension system. In the end, this customizable solution was truly "green," both for the environment and for the project's bottom line.

- **Technical expertise:** The technical expertise and support that is provided by MAPEI played a pivotal role in the decision to switch to *Mapecrete* System. The accessibility of experienced professionals who could address specific project needs and challenges was a significant advantage.

MAPEI's ability to offer a complete range of comprehensive system solutions – from admixtures to sports-surfacing systems – for various stages of construction provided a comprehensive and integrated approach to the project.



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## MAPEI on the job

The selected *Mapecrete* System products – *Dynamon SX* high-performance admixture, *Expancrete* expansive agent, *Mapecrete Film* evaporation retardant, *Mapecure SRA 27* liquid admixture and *Mapecure SRA 27* liquid admixture and *Mapecure SRA 27* liquid admixture and *Mapecure SRA 27* liquid admixture and *Mapecure SRA 27* liquid admixture – played a crucial role in ensuring the durability and longevity of the pickleball courts. These products were incorporated into the concrete mix, enhancing its performance and resistance to environmental factors such as weathering, abrasion and freeze-thaw cycles.

In addition to admixture products, the surface preparation and finishing of the pickleball courts were entrusted to one of MAPEI's *Mapecoat TNS* coating systems. *Mapecoat TNS Professional System* offered a seamless, cushioned and durable playing surface. This system is known for its excellent player comfort, ball response and overall performance, making such a solution the ideal choice for the pickleball courts at Willows at Grande Dunes.

standard in recreational construction. MAPEI's commitment to quality, performance and technical expertise has elevated the pickleball experience for the community, reinforcing Willows at Grande Dunes as a premier living destination.



## Elevating pickleball excellence

The decision to include MAPEI's admixtures and sports-flooring solutions proved to be a game-changer for Willows at Grande Dunes. The completed pickleball courts exemplify excellence in construction, durability and playability. Residents now enjoy a cutting-edge recreational facility that not only meets but also exceeds their expectations.

The successful construction of the pickleball courts at Willows at Grande Dunes is a testament to the transformative impact of selecting the right construction solutions. By choosing MAPEI's admixtures and sports-flooring products, the owners and architects have set a new

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