

Oklahoma River Whitewater Park Facility

Hycrete Waterproofs Whitewater Kayak and Rafting Park Facility

INTEGRAL ADMIXTURES DELIVER LASTING CONCRETE PROTECTION AND REDUCE LONG-TERM MAINTENANCE REQUIREMENTS

Structure: Whitewater Park

Applications: Slabs and walls of concrete channels

Owner: City of Oklahoma City

Architect: Elliott + Associates Architects

Engineer: S2O Design and Engineering

General Contractor: Downey Contracting

Ready Mix Provider: Dolese Brothers

Introduction

Riversport Rapids Whitewater Center is the first pumped-park design in the world that offers a recreational channel, a competition channel and a combined-flow freestyle channel in the same whitewater venue. The Whitewater Center is part of the larger OKC Boathouse District Campus, the headquarters for the USA Canoe and Kayak Federation, and is designated as a U.S. Olympic and Paralympic Training Center.

Challenge

S2O Design, the project lead, worked with the city and stakeholders to create a unique design and world-class venue that has the aesthetics and scale to blend into the existing Boathouse District Master Plan. An important design requirement was that the concrete channels (using over 11,000 cubic yards of concrete) be protected from degradation over time, limiting the need for costly fixes to damaged concrete.





Solution

The project lead chose Hycrete Endure WP for its proven waterproofing and corrosion protection. As an integral solution, Hycrete Endure WP provides protection for the life of the concrete and protects steel reinforcement by reducing water absorption, chloride penetration, and protecting the steel at its surface.

Result

The whitewater park is permanently protected and the future costs for concrete maintenance have been eliminated for the life of the structure. Hycrete Endure WP was easily incorporated into the concrete mix and the owner has long-term waterproofing and corrosion protection.



[Click here to watch a video about the project.](#)