



University of Wyoming Aquatic Center



2025

ABOUT THIS PROJECT:

Market Segment:
General Construction

Owner:
University of Wyoming

Products Used:
Xypex Admix C-500 NF

Concrete Producers:
RM Concrete, Vaughn Concrete Products

Architect:
Arete Design Group

General Contractor:
GE Johnson Construction Company Wyoming

Location:
Laramie, Wyoming, USA

The University of Wyoming is constructing a new 44,300 square foot aquatic center to support NCAA athletics, campus recreation, and competitive event hosting. The facility includes a 50-meter, 10 lane competition pool along with diving platforms and associated aquatic support structures designed to meet collegiate performance standards.

To enhance durability and waterproofing performance, Xypex Admix C-500 NF crystalline waterproofing admixture was incorporated into the concrete used for the pool shell, pool deck structures, and associated aquatic facility elements exposed to continuous moisture and chlorinated water conditions.

Added during batching, Xypex Admix reacts with water and the by-products of cement hydration within the concrete. With water acting as the catalyst, the proprietary chemicals form a non-soluble crystalline structure within the interconnected capillary pores and microcracks of the concrete. This crystalline formation blocks pathways for water penetration and reduces permeability throughout the concrete matrix.

By integrating crystalline waterproofing directly into cast-in-place concrete elements of the aquatic facility, the project team prioritized long term durability and reduced maintenance requirements for a high use collegiate recreation and competition venue.

