



8th Ave Reservoir Improvements



2024

ABOUT THIS PROJECT:

Market Segment:
Wastewater Treatment
& Distribution

General Contractor:
Bowen Engineering

Products Used:
Xypex Admix C-500-NF

Location:
Nashville, Tennessee,
USA

Owner/Developer:
Nashville & Davidson Co.
- Metro Purchasing

Ready-Mix Provider:
(SRM) Smyrna Ready
Mix Concrete LLC
(Nashville, TN)

Initially built in 1889, the 8th Avenue Reservoir is the largest and oldest of the city's 37 reservoirs, supplying clean drinking water. Bowen Engineering chose Xypex Admix C-500 NF for its proven, durable, long-lasting waterproofing performance as part of a comprehensive rehabilitation project, including tank-in-a-tank construction, vault improvements, and overall reservoir upgrades.

This Xypex C-500 NF admixture was added to all reservoir walls, forming a non-soluble crystalline structure during batching. The crystalline technology effectively seals concrete from within, blocking water penetration and increasing the long-term durability and sustainability of the reservoir's infrastructure.

By integrating Xypex Admix C-500 NF, Bowen Engineering achieved leak-free concrete without costly coatings or crack injection methods. Xypex Admix C 500-NF offered permanent waterproofing protection while improving resistance to aggressive chemical environments, such as chlorides and sulphates, and able to withstand extreme hydrostatic pressure.

Xypex Admix C-500 NF is NSF 61 certified, verifying its suitability for use in potable water applications. Its non-toxic nature further highlights its environmental responsibility, making it the product of choice by engineers for sensitive applications where sustainability and long-term performance are vital.

