



## Alley 111 Apartments



2014

### ABOUT THIS PROJECT:

**Market Segment:**  
General Construction

**General Contractor:**  
Exxel Pacific

**Products Used:**  
Xypex Admix C-500

**Location:**  
Bellevue, WA, USA

**Ready-Mix:**  
CADMAN INC.

**Applicator:**  
Air Placed Concrete  
Specialists

### DESCRIPTION

In downtown Bellevue, Washington, the Alley 111 mixed-use high-rise stands as a notable project that combines residential and commercial spaces. At the heart of its design is a LEED-point eligible water retention vault, aimed at capturing and storing stormwater, in line with the city's building regulations.

This system plays a critical role in the building's approach to sustainability and urban runoff management, positioning it as a forward-thinking development.



### THE XYPEX SOLUTION

The construction of the water retention vault was carried out using a blind-side shotcrete method, incorporating Xypex Admix C-500 to ensure a fully watertight finish. The selection of Xypex Admix C-500 was pivotal for the project, enhancing the structure's durability against hydrostatic pressure and supporting the project team's goals of achieving both sustainability and efficiency.

This approach helped in reducing forming costs and expedited the construction schedule. Additionally, the vault serves a dual purpose by collecting water from the building's exterior envelope.



This collected gray water can then be repurposed for non-potable uses, illustrating the building's commitment to environmentally responsible water management practices.

The Alley 111 project also includes a fire suppression vault, constructed with traditional methods for the interior walls, while the structural walls and slab benefited from the inclusion of Xypex Admix C-500. This extensive use of Xypex products throughout various elements of the construction underlines the confidence in Xypex technology to provide lasting waterproofing solutions and enhance the concrete's longevity.



Xypex Admix C-500, known for its crystalline waterproofing technology, was chosen for its proven ability to resist extreme hydrostatic pressure, self-heal microcracks, and protect concrete against chemical attack and corrosion. This innovative approach not only safeguarded the squash court's foundation from water damage but also provided a sustainable, long-lasting solution.

To learn more about how Xypex protects and waterproofs in general construction, [click here](#).

