



Neelu Bachra Centre

Vancouver, BC, Canada



Project Completion
SEPTEMBER 2014

Contractor
SYNCR A CONSTRUCTION CORP.

Architect
STUDIO ONE ARCHITECT INC.

Owner/Developer
ORCA WEST DEVELOPMENT GROUP LTD.

Concrete Producer
BURNCO ROCK PRODUCTS



This new retail space at 500 West Broadway in Vancouver is a LEED Silver certified building, which includes six stories of retail and office space and four levels of underground parking. To waterproof and protect the foundation, Xypex Admix C-500 was added to the concrete walls and slab on grade.

The walls were shotcrete placed and had a drainage board matting behind them to act as a drainage layer. The walls were placed against the shotcrete soil nailed excavation stabilization layer or against a single sided plywood backing form. The walls were placed in 8 foot lifts with the shotcrete nozzleman commenting that the Xypex mix had no set-delay or other discernible differences in its "shootability" from standard shotcrete mixes.



This building was built into a hillside, with significant water flow into the excavated hole from the surrounding soils. Most leaking cracks in the exterior foundation walls self-healed with only minor repairs in the elevator shaft required. This deep foundation building, built into a known high water flow hillside, was completely and permanently waterproofed using Xypex C-Series admixture.