

Delbrook Community Recreation Centre – North Vancouver, BC, Canada

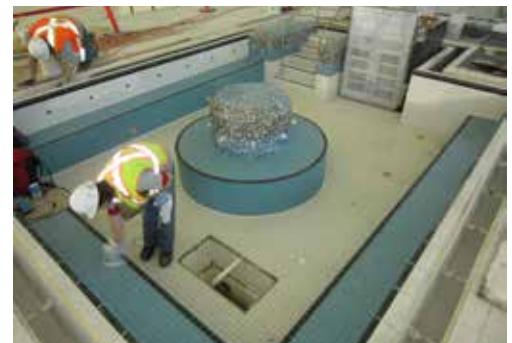
Project overview

MAPEI products proved to be a welcome addition to construction efforts for North Vancouver's new Delbrook Community Recreation Centre. Tile installation and waterproofing products were used in the lap pool, leisure pool, sauna, steam room and changing rooms, while other products for tile work were used in the elevator cars, office washrooms, public washrooms and staff lunchroom areas.



Project information

Project category:	Public Building – Community Center
Period of construction:	2017
Year of MAPEI involvement:	2017
MAPEI coordinators:	Dave Randall and Anthony Petrunia
Project owner:	District of North Vancouver
MAPEI distributor:	Pacific Rim Flooring Supplies
Architect:	HDR/CEI Architecture Associates, Inc.
General contractor:	Stuart Olson Construction Ltd.
Installer company:	Apex Granite & Tile Ltd.
Project manager:	Don Adersley
Photographers:	Dave Randall and Raul Ballester
Project size:	147,000 square feet (13 657 m ²)



MAPEI products used

- Planitop® 23
- 4 to 1™ Mud Bed Mix
- Planicrete® AC
- Mapelastic® 315
- Kerabond®
- Keraply®
- Ultraflex™ LFT™
- Kerapoxy® CQ
- Keracolor® U
- Primer L™
- Novoplan® 2 Plus
- Planibond® EBA
- Ultratop®

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Recreation center's construction brings MAPEI products out to play

North Vancouver was faced with a dilemma – its two aging recreation centers, the William Griffin Community Centre and the Delbrook Community Centre, were undersized, underutilized and simply not meeting the needs of the community's growing population.

Consequently, the District of North Vancouver made the decision to consolidate the two facilities into one modern recreation center: The Delbrook Community Recreation Centre. Because William Griffin, a council member from the 1950s, had other monuments in town bearing his name, the decision was made to remove his name from the building in a bid to streamline and modernize the process.

After five years of redesign and construction, the new Delbrook Community Recreation Centre opened in 2017. Its redesigned features include:

- Three levels of recreation, cultural and community spaces
- An aquatic facility featuring a six-lane lap pool, a separate and fully accessible leisure pool and a hot tub, plus a sauna, a steam room and all-gender changing rooms
- A large gymnasium, a weight room, a fitness studio and two convertible squash/racquetball courts
- A series of multi-use rooms for community programs and rental spaces, as well as pottery and arts and crafts studios (complete with kilns) and administration offices.

MAPEI products at work on the jobsite

MAPEI tile installation products were used in the lap pool, leisure pool, sauna, steam room and changing rooms; in addition, MAPEI waterproofing products were

incorporated within these areas. MAPEI products were also used for tile work in the elevator cars, office washrooms, public washrooms and staff lunchroom areas.

Working with the general contracting firm Stuart Olson Construction Ltd., MAPEI sales representatives Dave Randall and Anthony Petrunia ensured that everything was installed to MAPEI's high standards.

The Apex Granite & Tile Ltd. crew began by using **Planitop 23** – a polymer-modified, thixotropic, fiber-reinforced cementitious mortar – in order to bring the lap pool into a right and true rectangle. Then, 22,000 square feet (2 044 m²) of surface preparation was carried out as the crew applied **4 to 1 Mud Bed Mix** sand and cement mortar mixed with **Planicrete AC**, a liquid latex admixture designed to enhance the performance of cementitious repair mortars.

Next, Apex crew members waterproofed 31,600 square feet (2 936 m²) of the pool and deck area with **Mapelastic 315**, a flexible, fiber-mesh-reinforced waterproofing and crack-isolation membrane designed for installation under tile. They also installed **Mapelastic 315** as added waterproofing protection in other areas that would be almost constantly wet, including the steam room and changing room showers.

Kerabond dry-set mortar and **Keraply** latex admixture were used to set tiles of various sizes in the lap and leisure pool, on the pool deck and shower floors, and in the sauna and the steam room. The tiles ranged from 1" x 1" (2.5 x 2.5 cm) mosaics along the walls of the leisure pool to 5" x 5" (12.7 x 12.7 cm) white tiles in the lap pool; 2" x 2" (5 x 5 cm) accent tiles in deep blue were also installed. Depending on the location, gray and white shades of **Kerabond** were used.

The crew used **Ultraflex LFT** – a polymer, non-sag mortar designed for use with large and heavy tiles – to set 4" x 16" (10 x 41 cm) tiles along the walls of the pool area, as well as 5" x 5" (12.7 x 12.7 cm) tiles on the changing room walls.

Kerapoxy CQ, a non-sagging epoxy grout that includes color-coated quartz, was used for grouting both pools and the pool deck, the steam room and sauna, and changing room floors, as well as the floors in the kitchen and elevators. Another member of MAPEI's premium grout family, **Keracolor U**, was used to grout the walls around the pool deck, changing room walls and kitchen backsplashes in the food-preparation areas. This pre-blended, polymer-modified, Portland-cement tile grout is available in a wide variety of colors and was used to provide protection and decoration throughout the facility.

Crew members also used MAPEI surface-preparation materials in the areas devoted to offices and meeting rooms, in order to ensure that the floors were level and flat for installation of the carpet. First, they installed **Primer L**, a solvent-free, acrylic latex primer designed for use on concrete before the installation of underlayment materials. Then, they installed **Novoplan 2 Plus**, a cement-based, high-strength, self-leveling underlayment. **Novoplan 2 Plus** was cured and ready for carpet installation in 24 hours.

Specifications called for the concrete floor in the office-area hallways and in the open leisure spaces to be left exposed. In order to protect the concrete from damage, the crew applied **Planibond EBA**, a nonshrinking epoxy bonding agent, and **Ultratop** self-leveling, self-drying, polishable concrete topping in gray.

Thanks in part to MAPEI products, North Vancouver has a modern, welcoming recreation center that will serve the community's needs for years to come.

