



SUPERCAP[®]
The Next Generation Slab[®]

PROJECT SPOTLIGHT



WATERPARK PLACE

LOCATION
Toronto, Ontario

APPLICATOR
SUPERCAP Ontario, Ltd
Toronto, Ontario

OWNER
RBC Waterpark
Place Tower

GENERAL CONTRACTOR
Ellis Don;
Toronto, Ontario

ARCHITECT
WZMH Architects;
Toronto, Ontario



RBC WaterPark Place in Toronto was designed with the vision of becoming Toronto's first LEED Core and Shell Platinum Tower. This highly visible showpiece, constructed by one of Canada's largest general contractors Ellis Don, has a stated goal of employing the absolute highest standard in sustainable practices at every level.

To help accomplish this, the project used the LATICRETE® SUPERCAP® System. The cement-based LATICRETE SUPERCAP System provided the precision and LEED certification needed for the project.

The creation of WaterPark created many challenges. The first was the need for extreme precision. Highly specific tolerances were required for the marble tile. Since the WaterPark has over \$1 million of vertical marble set to a stainless steel trim throughout, the underlayment had to be placed with exact accuracy ensuring that the marble floor tile fit underneath to within a millimeter. This required setting many grade pins (level-pegs) precisely with a laser system.

Using a combination of the LATICRETE SUPERCAP computer-controlled, mobile blending unit and LATICRETE SUPERCAP SC500, the job was completed, and completed correctly. LATICRETE SUPERCAP SC500 is a pumpable, pourable, low alkali cement-based, premium self-leveling underlayment based on a proprietary mineral binder system that is used to finish interior concrete and level uneven floor surfaces.

Furthermore, since the building needed to be LEED certified, strict product and installation processes were required, including the use of low VOC products and 'clean' (no dust) delivery systems.

To accomplish this, SUPERCAP ONTARIO Ltd. installed the LATICRETE SUPERCAP System. The project demanded a flat and level benchmark to make sure the marble could be installed and fit precisely.

Explaining why the LATICRETE SUPERCAP System was the right choice, Sales Representative John Forewell said, "LATICRETE SUPERCAP was the perfect solution to this challenge. When you are building Toronto's first LEED Core and Shell Platinum Tower, the last thing you need is a slow, cumbersome process that creates dust. Our LATICRETE SUPERCAP System is truly The Next Generation Slab™. We'd encourage all architects who are designing LEED certified buildings to look to the LATICRETE SUPERCAP System. It is a fast, efficient process that will get the job done on-site."

Over the course of five Fridays, SUPERCAP ONTARIO Ltd. poured 48,000 square feet (4,849 square meters) of 5/8" (1.6 centimeters) LATICRETE SUPERCAP SC500 concentrate.

And the tolerances weren't the only thing that was tight. LATICRETE SUPERCAP got the job done under a tight time frame as well.



Each Friday there would be a three to five hour pour. Using a traditional barrel mix procedure, the same work would have taken all weekend. Thanks to LATICRETE SUPERCAP, the speed with which the product was applied, and the speed with which it hardens, put other contractors back to work sooner. Applicator Bill Loveys from SUPERCAP ONTARIO Ltd. describes just how well the LATICRETE SUPERCAP application was able to fit into a challenging construction cycle. Explained Loveys, "All the pours on the site were scheduled for Fridays and we were promised ample prep time to prepare for each pour. Unfortunately, as is the case with many large scale projects, factors beyond our control made providing this preparation time impossible."

Loveys continued, "That didn't stop us however. Instead our team worked double shifts on Thursdays, right up until it was time to pour. Come Friday mornings, we'd hook up the LATICRETE SUPERCAP pump truck and start pouring immediately."

Then an amazing thing happened, people just got out of the way and watched. In fact it wasn't unusual to see groups of other contractors hanging around the site and watching LATICRETE SUPERCAP work its magic. The most overheard comments from these construction professionals was admiration about just how fast and efficient the LATICRETE SUPERCAP pump truck worked.

While the project needed to be completed in an efficient manner, it is also LEED certified. In the case of WaterPark place, this was vitally important. The project was designed with the optimal health of employees, the wellness of the planet, and the robustness of the economy in perfect balance. To build something like that, the LATICRETE SUPERCAP System is the only solution.

The LATICRETE SUPERCAP System is LEED-contributing, UL GREENGUARD Gold Certified, low-alkali, self-leveling, cement-based technology met the desired LEED standards for WaterPark place in two ways:

One, the application is a dustless process thanks to the fact that the product is mixed in the pump truck and comes in wet; and Two, LEED standards dictate the plant for the materials needs to be within 500 miles (805 kilometers) of the building and the LATICRETE SUPERCAP pump truck was located on-site.

The end result is a project, RBC WaterPark, that is setting a new standard for smart design, sustainability, and an amenity-rich downtown office life.

The LATICRETE SUPERCAP System came through thanks to the ability to blend 30,000 pounds (13,068 kilograms) per hour. This revolutionary system benefited the entire project by providing predictable results that saved time, money, and delivered a stunning final product.





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