

kelso coatings



Client

Ira McDonald Construction Ltd

Location

Burlington, Ontario, Canada

Project type

Repairing & Waterproofing

Royal Botanical Gardens

Waterproofing Decorative Pond

PROBLEM

One of the major tourist attractions in Ontario, the Royal Botanical Gardens is headquartered in Burlington and includes a 1,100-hectar nature reserve located at the tip of Lake Ontario. The reserve contains four gardens and 27 kilometres of nature trails. One of the gardens - the 20- acre Rock Garden - houses a man-made pond with a concrete foundation.

The pond's cold joint (where wall meets slab), had leakage issues. Unfortunately, the admix which was added to the shotcrete had failed. Kelso Coating was engaged to create a waterproofing solution to prevent future water loss.

PROCESS & HIGHLIGHTS

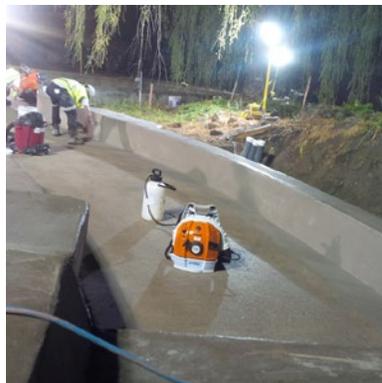
- Concrete failure at cold Joints
- Kelso Coating water-blasted and chased all cracks and cold joints
- Applied 2 coats of CN2000B on all walls
- After all walls were coated with the CN2000 system, applied the same system on the slab
- Final two coats of CN2000B topped with CN2000C/D to keep the B coating hydrated

PRODUCTS USED

- The CN2000B crystalline coating was applied on all the walls and slab of the pond structure.
- Once all areas have been treated with two coats of CN2000B, one coat of CN2000C & D was applied on top of the CN2000B crystalline coating to keep it hydrated for curing purposes.

SOLUTION

Kelso's certified team applied the CN2000 waterproofing system to create a watertight seal around the entire pond. Where cracks existed, Kelso's certified applicators chased all of them as well as the cold joints. These efforts resulted in the full rehabilitation of the pool, preserving its functionality and ensuring it will continue to be enjoyed by the Garden's more than 500,000 annual visitors. The CN2000 waterproofing system performed as expected and was completed on time and budget.



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