

# kelso coatings



## Client

Ontario Power Generation (OPG)

## General Contractor

HCM

## Location

Port Hope, Ontario, Canada

## Project type

Sewage Pumping Chamber Waterproofing

## Ontario Power Generation (OPG)

### Sewage Pumping Chamber Waterproofing

#### PROBLEM

Committed to reliable, safe, and environmentally-sustainable energy production, Ontario Power Generation (OPG) produces almost half of the electricity for the population of Ontario. OPG recently converted its coal stations to renewable biomass, and its facility fleet now includes 66 hydroelectric stations and two nuclear stations. When one of OPG's 25-foot-deep manholes began to experience an active leak from groundwater infiltration, Kelso Coating was engaged to provide a solution.

## PROCESS & HIGHLIGHTS

- Surface preparation completed in 2 days. Including chasing the crack, water blasting to open the pores and saturate the concrete.
- Application time of 2 days.
- 24 hour air-dry cure once CN2000 C&D applied.

## PRODUCTS USED

- CN2000A Insta-plug for the active leak areas. (1 coat)
- CN2000B® cementitious crystalline on the entire area. (2 coats)
- CN2000C & CN2000D a polymer/latex and cement composite applied on the entire area to add flexibility and cure. (1 coat)

## SOLUTION

Kelso Coating's CN2000 system was applied to the inside of the manhole's pre-cast concrete joints and cracks exhibited in the pre-cast pipe. Surface preparation was completed by HCM in two days, inclusive of scaffolding, chasing the cracks, and water blasting to open the pores and saturate the concrete to prepare it for application. An additional two days was required for coating application, including CN2000 A (Insta-plug) for active leak areas, two coats of CN2000 B cementitious crystalline, and one coat of CN2000 C and D, a polymer/latex and cement composite applied to add flexibility and cure. Since these materials are resistant to extreme hydrostatic pressure and corrosion, OPG could have full confidence that they would stop water infiltration.

