

# kelso coatings

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Abrasives ♦ Coatings ♦ Restoration

## Ontario Power Generation (OPG)

A permanent solution to water infiltration

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## Active Leak in Manhole CN2000 to coat the interior concrete

By Ron Langdana, President, Kelso Coatings

### Problem

Active leak from groundwater infiltration in 25-foot deep manhole. The water was coming through the joints of the pre-cast concrete and the cracks in the pre-cast pipe.

### Solution

A coating with resistance to extreme hydrostatic pressure and corrosion; and, an application that can be applied on the inside with confidence to stop the water infiltration.

### Time to Complete

- Surface preparation completed in two days.
  - Includes scaffolding, chasing the cracks and in this case, water blasting was used

to open the pores and saturate the concrete required for application.

- Application time of two days.
  - CN2000<sup>®</sup> A, B, C and D were applied. CN2000<sup>®</sup> A (Insta-plug) for the active leak areas. Two coats of CN2000<sup>®</sup> B cementitious crystalline on the entire area. One coat of CN2000<sup>®</sup> C&D - a polymer/latex and cement composite applied on the entire area to add flexibility and cure.
  - 24 hour air-dry cure once CN2000 C&D applied.
- OPG can continue the next phase of installing the pipes and releasing the water.

Kelso Coatings, a division of Kelso Industrial Group  
575 Industrial Drive, Milton, ON L9T 5E1 (905) 281-3921 [www.kelsocoatings.com](http://www.kelsocoatings.com)