



Manhole Rehabilitation



Efficient, effective manhole rehabilitation

Manhole and structure rehabilitation is an important piece of Michels Canada's holistic approach to repairing and rehabilitating storm sewer systems. When installed by our technical experts, manhole and structure rehabilitation results in the removal of infiltration/inflow (I/I), repair of hydrogen sulfide (H₂S) corrosion, and restoration of structural integrity.

Michels Canada's rehabilitation teams use cementitious, epoxy and geopolymer products specifically designed to trenchlessly rebuild manholes and structures to protect them against H₂S deterioration.

Chimney seals with up to 500 percent elongation can be spray applied to existing structures to eliminate infiltration or used to protect storm structures from harsh calcium magnesium salts used by road crews during the winter seasons.

Because this type of work is often done in high traffic areas where minimal disruption to motor and pedestrian traffic is required, Michels Canada uses a custom-designed geopolymer application system mounted within a tandem truck. The self-contained unit includes a water tank, generator, compressor, pressure washer and D150 mixer.

Metro Vancouver GVS&DD Pilot Project

2019

Surrey, BC

Michels Canada used geopolymer spray to rehabilitate six manholes and chambers. The manholes and chambers were 1,200 mm in circular diameter and square shapes, and ranged in depth from 1.55 meters to 2.45 meters. A 1-inch thick layer of geopolymer mortar was hand-sprayed, cured for 24 hours and sprayed with an anti-microbial sealant to protect against future deterioration. The rehabilitation work was completed in seven days, three days ahead of schedule.

