

Client: Jacques Cartier Bridge, Montreal, Quebec

Topic: Hairline cracks in the high performance barrier walls which would ultimately lead to corrosion of the reinforcing steel and require replacement of the bridge structure

Situation

Our client was:

- ∴ The Jacques Cartier / Champlain Bridge Incorporation (JCCBI).

Challenges

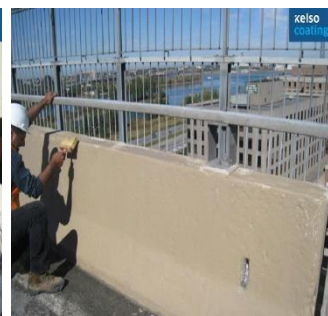
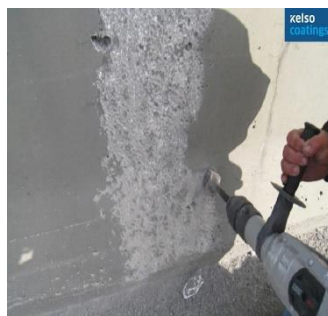
The challenges facing us were in:

- ∴ Busy highway location.
- ∴ The sidewalk, walls and bridge deck were all constructed as one piece.
- ∴ Cracks would lead to corrosion from chloride ion and freeze/thaw cycles.

Actions

The actions we took to address these challenges were:

- ∴ The surface was prepared for the CN2000® coating.
- ∴ Two coats of CN2000B® were applied to the wall to prevent any further deterioration and provide a self-healing solution for future cracks.
- ∴ After the second coat of CN2000B® set, two coats of the polymer flexible membrane CN2000C® and CN2000D® were applied on top of the CN2000B® coating to provide a labour-free curing process (no mist spraying required), which gives the coating more flexibility to provide protection from vibrations on the bridge deck.



Results

Our actions resulted in:

- ∴ CN2000® products are anti-corrosive and will not deteriorate over time. As a result, they will continue to protect the underlying infrastructure from erosion.
- ∴ The CN2000® protection will lead to lower maintenance costs and higher useful lives of the infrastructure.

For additional information, or to discuss your requirements, please contact:

Kelso Industrial Group ♦ 575 Industrial Drive ♦ Milton, ON L9T 5E1 ♦ 877-462-7639
info@kelsoindustrial.com ♦ www.kelsoindustrialgroup.com