

FloChem Ltd.
Guelph, Ontario



Secondary Containment

FloChem Ltd. is a full-service, quality chemical management company specializing in distribution, transportation, labeling, and custom blending of various acids, caustic soda, sodium hypochlorite, hydrogen peroxide, and other specialty chemicals. Their customer base includes agricultural, mining, pulp & paper, industrial, and municipal water & wastewater clients.

FloChem has two tank farms containing sodium hypochlorite and hydrogen peroxide respectively. In both areas the coating originally applied to protect the concrete had failed and was delaminating from the substrate. In addition, the poured concrete walls of the sodium hypochlorite containment area had developed some shrinkage cracks, leaving the area susceptible to a possible breach of



Original condition of containment area

containment in the event of a spill. FloChem was looking for a lining system that would provide long-term performance and effective secondary containment.

Inscan's Specialty Contracting Services Division proposed a fiberglass-reinforced vinyl ester lining system, and was awarded the job based on their proven experience in secondary containment applications and a competitively priced proposal.

The first and most crucial step in any installation is the proper preparation of the substrate. The existing disbonded coating was removed and the concrete prepared by a combination of scarification and abrasive blasting.



Abrasive blasting preparation of concrete

The sumps and floor/wall junctions were troweled to provide smooth, radiused transitions, and the walls were parged to fill any bugholes to ensure that no voids would be present under the lining. The concrete was then primed and the lining system, consisting of chemical resistant vinyl ester resins, fiberglass mat, and vinyl ester topcoats, was carefully applied to ensure seamless performance.

Inscan was able to accommodate a relatively tight installation schedule and complete the job safely, on time, and to the highest quality standards.



Completed sodium hypochlorite containment area

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