

# PROJECT PROFILE



The Advanced Materials Centre

**Project:** Secondary containment structure, Windsor, Ontario, Canada

**Designer:** Retco Ltd, and Matassa Inc, Windsor, Ontario

**Client:** Retco Ltd.

**Contractor:** Matassa Inc., Windsor, Ontario, Canada

**Gemite Products:** **Cem-Kote Barrir Coat 100** and **Gem-Kote EP 100**

**Objective:** Waterproofing and chemical protection of concrete secondary containment structure.

The concrete slab of this secondary containment structure exhibited a high water vapour transfer causing de-bonding of the polymer barrier systems applied to protect the concrete against chemical attack of 34 % concentrated hydrochloric acid, stored in the primary tank. No cement based products exhibit chemical resistance to 34% concentration of hydrochloric acid. In order to prevent de-bonding of an epoxy coating, the cement based **Cem-Kote Barrier Coat 100** was applied first, to provide water vapour retardation and allowing proper bonding of the epoxy **Gem-Cote EP 100** coating.



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