

## Hudson Bay Mining & Smelting Co. Ltd. Epoxy Sump Lining System

STRUCTURE: Zinc Plant  
LOCATION: Flin Flon, MB  
PROJECT DATE: 1993  
JOB DURATION: 2 weeks  
CLIENT CONTACT: John McLeod  
AREA: 4 Sumps @ 4' x 4' x 8'  
CONTRACTOR: Vector Construction Ltd.  
Saskatchewan Branch



### PROJECT DESCRIPTION:

**Problem:** Protect new concrete sumps from chemical attack, sump coating required to work in immersion conditions storing diluted concentrations of both acids & caustics.

**Area:** Approximately 150 ft<sup>2</sup> per sump.

**Procedure:**

- Proper surface preparation by shot-blasting or scabbling as required.
- Supply / install Ceilcote 680 epoxy primer lightly seeded with silica sand.
- Supply / install Ceilcote 683 trowel applied epoxy floor coating system at ¼" thickness.
- Perform ELCOMETER pull tests at 1 pull per 100 ft<sup>2</sup> of floor area to assure proper bond strengths are achieved. Pull strengths averaged greater than 2 MPA at all locations.



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