

Automotive Manufacturing Plant

Bradford, Ontario

Secondary Containment

A large automotive parts manufacturer has recently completed construction of a new stamping facility for the production of door hinges. Part of the production line includes a conveyor system which catches the parts as they fall through hoppers under the stamping presses. The conveyors run through two large concrete pits which collect and recycle the cutting oils used in the stamping process. The pits, measuring 16'-0" wide x 12'-0" deep x 680'-0" long and 6'-0" wide x 6'-0" deep x 250'-0" long respectively, required a protective coating to prevent oil seepage and contamination of the concrete.

Inscan Specialty Contracting Services Division was selected to complete the job based on their extensive experience in secondary containment applications, confined space expertise, and reputation for quality workmanship.

This was not a typical concrete coating job. Before any work could begin, the pits needed to be hoarded and heated to create a suitable environment for the curing of materials. Some pesky water leaks through small cracks in the walls required Inscan to perform urethane pressure injection. Once the water problems were corrected the concrete



Finished conveyor pit



Walls parged prior to coating

walls and floor were sandblasted to create a surface profile for optimum bond strength. An epoxy cove was troweled around the perimeter of each pit and in the trenches running through the center of each pit to facilitate unobstructed movement of the cutting oils and to permit easy cleaning. Sump pits were lined with a fiberglass mat reinforced system to mitigate the corrosion which can occur in these areas. The poured concrete walls of the pits were parged to fill any bugholes and to assure uninterrupted coverage of the coating. Finally, the epoxy coating was spray applied on the walls and roller-applied on the floor to finish the project.

The general contractor was pleased and impressed with Inscan's professionalism, attention-to-detail, and broad skill-set utilized to complete this project.

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