

Product Application Bulletin



POLYUREA

Tile Lined Tank Rehabilitation

Project: Sodium Chlorate holding tank. Repair tiles and tile joints in a tank originally scheduled for demolition. Steel tank members and the repaired tank tile liner were spray coated.

Owner: Avenor, now Weyerhaeuser

Specifiers: Ron Koivu, Project Engr.
Ian Winstanley, Maint. Mgr.

Contractor: Restoral Systems Inc., Thunder bay, Ontario

Area: 3,500 S.F.

Installation: June 1998



Weyerhaeuser, Dryden, Ontario Plant

The old Avenor plant, one of the largest pulp and paper facilities in the region, had scheduled this sodium chlorate holding tank for demolition and replacement. VersaFlex approached the Owner with a proposal to rehabilitate the interior of the tank.

Structural repairs were suggested for the tile areas, followed by a complete lining that would be able to contain the liquid. The contemplated saving was in the hundreds of thousands of dollars.

Engineers at the plant had previously tested the FSS 45DC material for compatibility with a wide range of stored liquids. They had assured themselves of the general utility of Polyurea. The savings was too great to be passed over, especially if several more years of tank life could be realized.

Restoral Systems performed the interior repairs, blasted the tank, both steel and tile, and installed the FSS 45DC polyurea spray liner.

This type of tank is prevalent in the pulp and paper industry. Tanks with structural integrity intact can have extended operating life by use of non-structural polyurea liners, as was done in the Dryden tank.

Structural liners, containing fiberglass reinforcement and capable of supporting the liquid

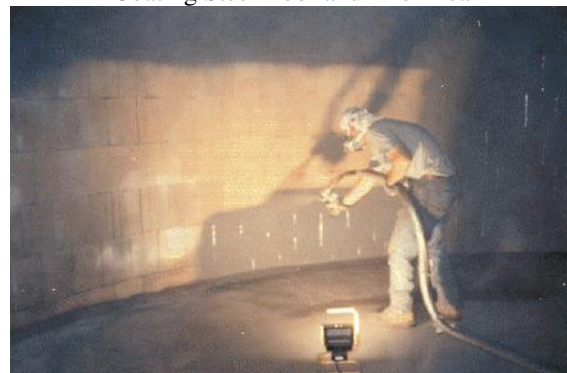
head, may be installed to rehabilitate tanks with serious structural deficiencies.



Interior Prior to Rehabilitation



Coating Steel Roof and Tile Area



Finishing the Walls and Interior Base

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